



BRITISH GEOLOGICAL
SURVEY

dti

OPEN FILE REPORT NO. 16

EXPLORATION FOR STRATABOUND MINERALISATION
AROUND CHILLATON, DEVON

Geology and Geochemistry: R C Leake
K Smith

Geophysics: K E Rollin

This data package relates to work
carried out by the British Geological
Survey on behalf of the Department of
Trade and Industry

©NERC Copyright, 1994
This information must not be
reproduced either in analogue or
digital form without written
permission from Director BGS

Exploration for stratabound mineralisation around Chillaton, Devon

R.C.Leake, K.Smith and K.E.Rollin

INTRODUCTION

Reconnaissance soil traverses were sampled across the regional strike of a Lower Carboniferous sequence of shales, cherts, basic volcanics and intrusive dolerites (greenstones) in the vicinity of Chillaton, Devon (Figures 1 and 2) to look for evidence of strata-bound mineralisation. The area was considered to have potential for stratabound base-metal mineralisation because of the presence of several old workings for manganese mineralisation in chert and associated rocks and presence along strike to the east at Sourton Tors, Belstone and Teign Valley of base-metal mineralisation with stratal control and because of similarities in geology and structural setting with the Iberian pyrite belt. In addition, several traverses were surveyed geophysically over a wider area both east and, to a lesser extent, west of Chillaton to provide apparent resistivity, chargeability, self potential and VLF data. These data showed the area immediately to the east of Chillaton to be the most interesting geophysically. Subsequently two holes were drilled in this area to investigate the source of the geophysical anomalies.

REGIONAL GEOLOGY

Remapping of the Chillaton area as part of the revision of the 1:50,000 Tavistock Sheet (337) by Exeter University (Turner 1981) indicated that the structural environment was of thrusts and nappes and complex fault zones producing complex outcrop patterns. The area was mapped as a series of structural units separated by major thrust faults. On the basis of fossil evidence the shaley rocks of the Chillaton area are thought to have been deposited in a rise margin environment together with black pyritic slates, thin tuffs and sandstone and chert horizons. Parts of the area are made up of thick well-bedded cherts with interbedded shale.

MINERALISATION

The manganese mineralisation of the area consists of irregular bodies of manganese oxide, rhodonite and rhodochrosite within chert close to bodies of intrusive dolerite. The largest area of workings was to the south of Chillaton which produced 46,000 tons of manganese ore between 1870 and 1907 (Dines 1956)

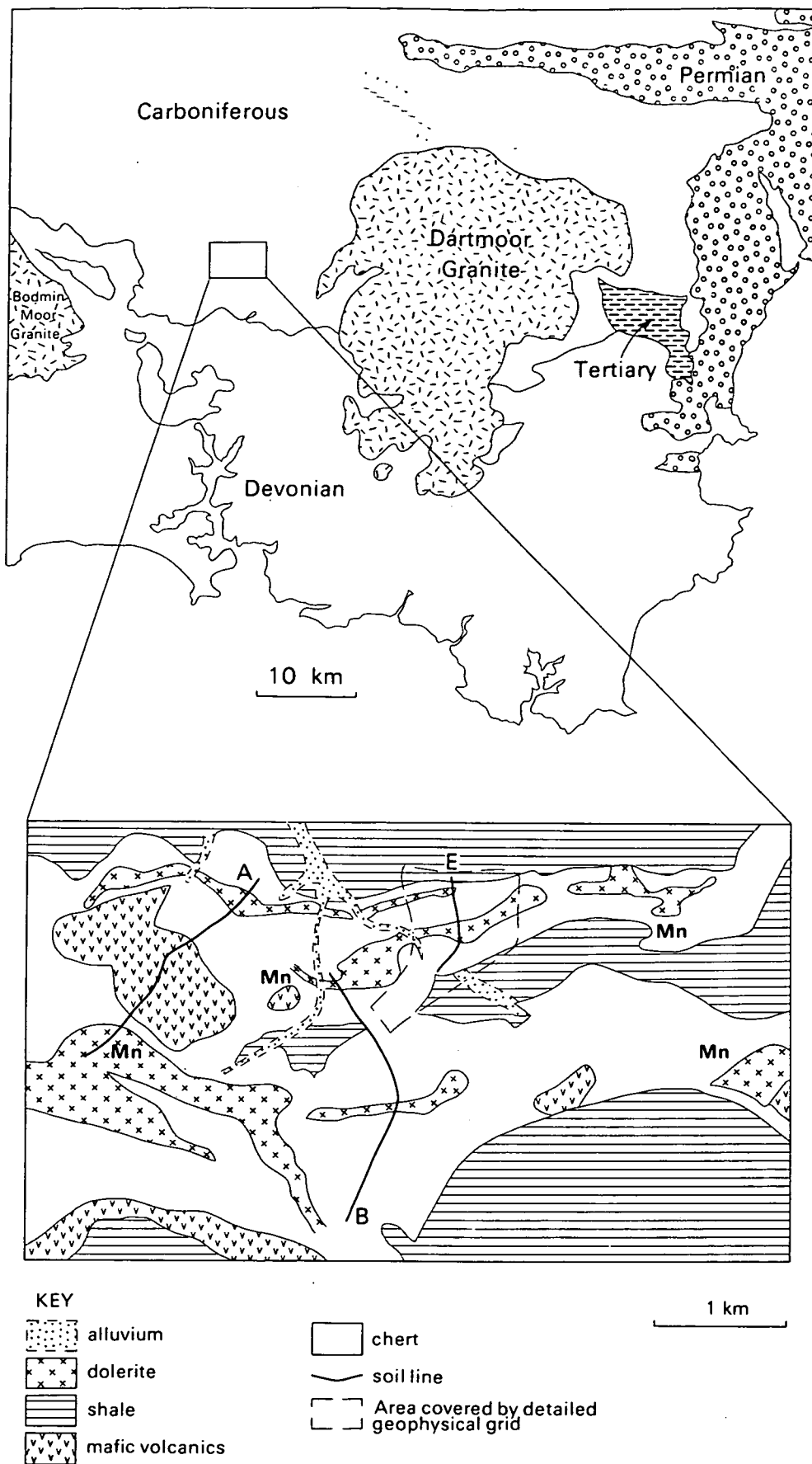


Figure 1 Geological map of the Chillaton area based on original 1:50,000 Tavistock sheet (337) showing reconnaissance soil lines and main locations of manganese mineralisation.

OVERBURDEN GEOCHEMICAL DATA

The overburden samples were collected from 9 traverses in four stages and analysed for a different combination of elements. Samples from lines A and B were analysed for Ca, Ti, Mn, Fe, Ni, Cu, Zn, As, Sn, Sb, Ba, Ce and Pb by XRF, for Co, Ni, Cu, Zn, Ag and Pb by AAS after hot nitric-perchloric acid digestion, for B and V by optical emission spectrography and for U by delayed neutron activation. Samples from lines C and D were analysed for Ca, Ti, Mn, Fe, Ni, As, Sn, Sb, Ba and Ce by XRF and for Co, Ni, Cu, Zn, Ag and Pb by AAS. Samples from line E were analysed for Ca, Ti, Mn, Fe, Ni, As, Sn, Sb and Ba by XRF and for Co, Ni, Cu, Zn, Ag and Pb by AAS. Samples from lines F to I were analysed by AAS and chemically for Mn, Fe, Cu, Zn and Pb and As respectively.

Maps showing the distribution of B, Ti, Mn, Ni, Cu, Zn, As, Ba, Pb and U are shown in figures 3 to 11. Several of the element distributions can be used to show the boundaries of major rock units (Figure 12) in what is an area of generally poor exposure but residual soils. Thus a major outcrop of mafic volcanic rocks showing enrichment in Ti is crossed by line A in the west of the area but only a narrow outcrop of similar rock occurs along strike to the east on line B. Similarly, several outcrops of intrusive dolerite are indicated in the overburden data by relative enrichment in Ni which agree moderately well with greenstone bodies shown on the 1912 Tavistock sheet geological map. The soil data also indicate that there may also be some relatively thin bodies of dolerite which are not shown on the above map. Line B also intersects a horizon of argillaceous sediment marked by enrichment in B, Ba and U compared with surrounding rocks. The soil data indicate that the shale horizon mapped on the old Tavistock sheet (Figure 1) extends further to the east than shown.

Manganese anomalies (Figure 5) are most evident at the northern end of line A and may reflect the broad zone of enrichment within which the deposits mined at Chillaton are set. A local but higher amplitude anomaly is present towards the south end of line B. In the area of the geophysical survey overburden anomalies are isolated and scattered. Copper anomalies are also associated with the south end of line B and the adjoining lines. Three pit samples taken from the vicinity of the maximum Mn anomaly showed enhanced levels of Mn, Cu and As (up to 1.08%, 140 ppm and 89 ppm respectively). Elevated levels of Ni in these samples (up to 150 ppm) suggests that some dolerite accompanies the cherty sediments in the area and that minor manganese mineralisation may occur in the area, possibly an extension of the mineralisation previously worked at Cardwell Farm, some 400 m to the west.

Low amplitude enrichment in zinc is associated with the volcanic rocks crossed by line A. Higher amplitude Zn anomalies (maximum 410 ppm) accompanied by slight enrichment in Ba occur 400 m to the north of the Mn anomaly on line B. The overburden geochemistry indicates that the anomalous zone occurs to the south of a relatively large body of greenstone, in association with a sequence containing a compositionally distinct relatively thin igneous body showing enrichment in Ni (maximum 320 ppm) and to a smaller extent Cu and Ti. The maximum lead anomaly (290 ppm) occurs 40 m to the north of the maximum zinc anomaly. In the area of the geophysical anomaly to the east of Chillaton the overburden samples provide evidence for only patchy and slight enrichment in metals except for As (Figure 9).

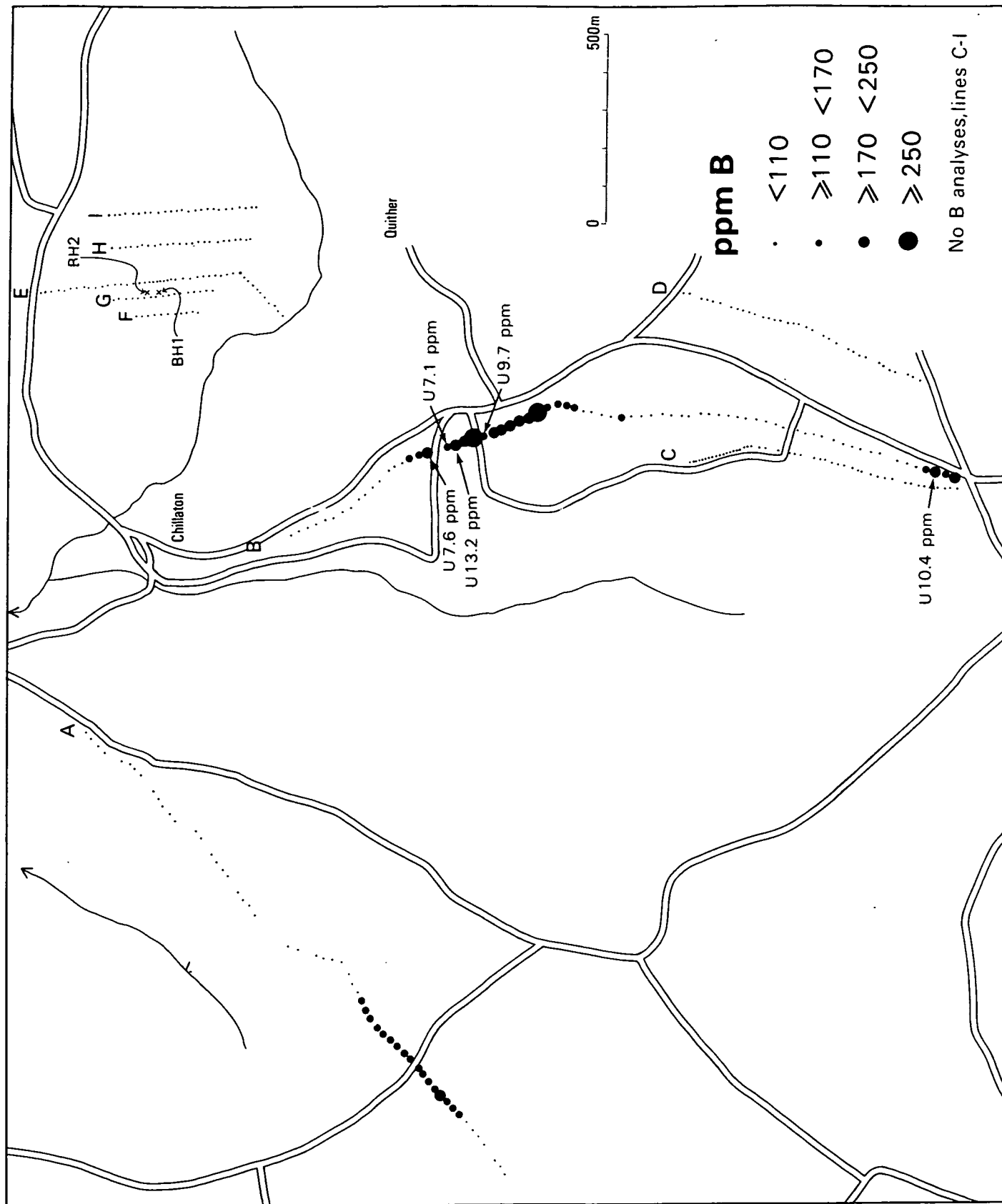


Figure 3 Distribution of boron in soil samples; location of samples with highest uranium contents also shown.

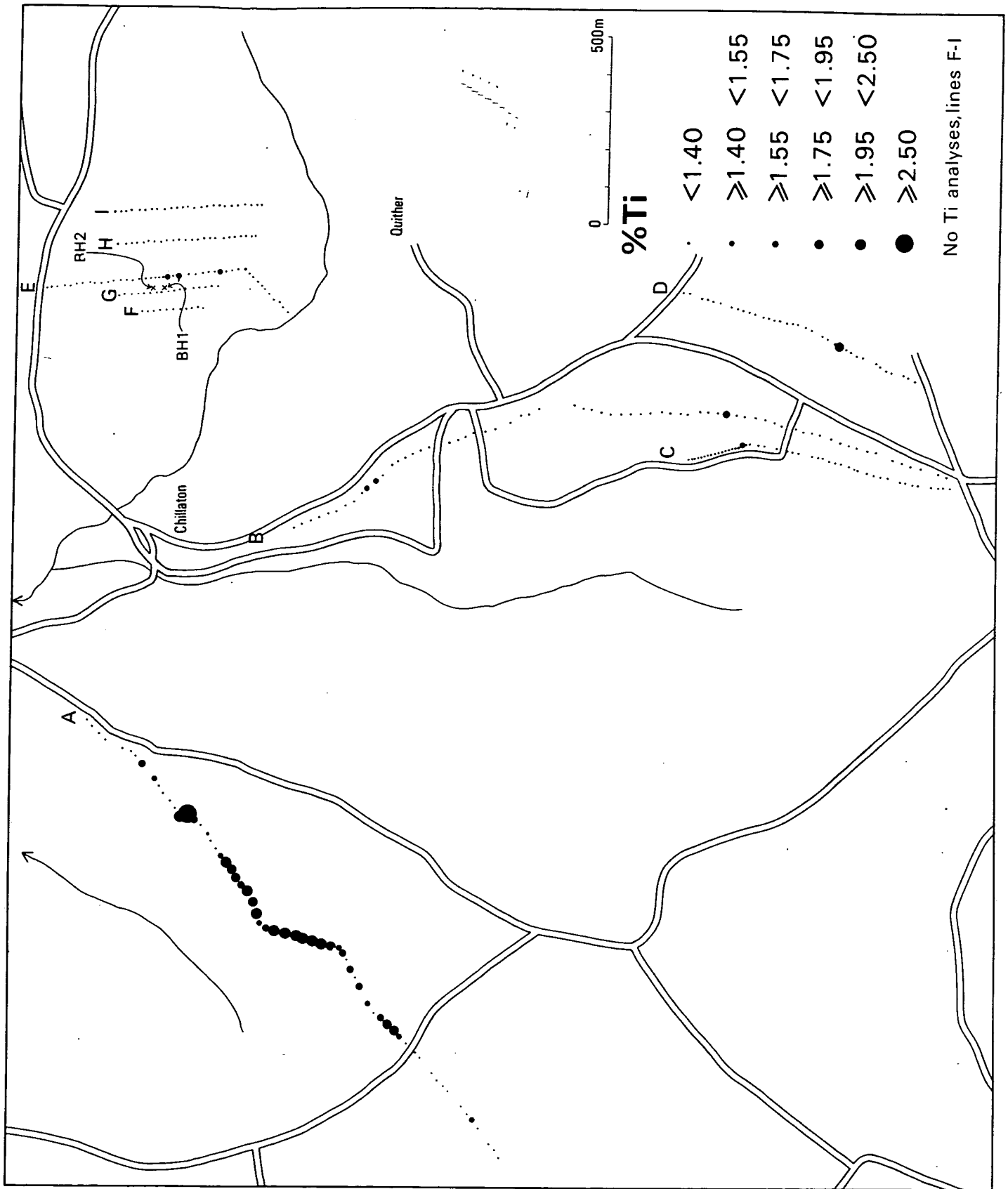


Figure 4 Distribution of titanium in soil samples.

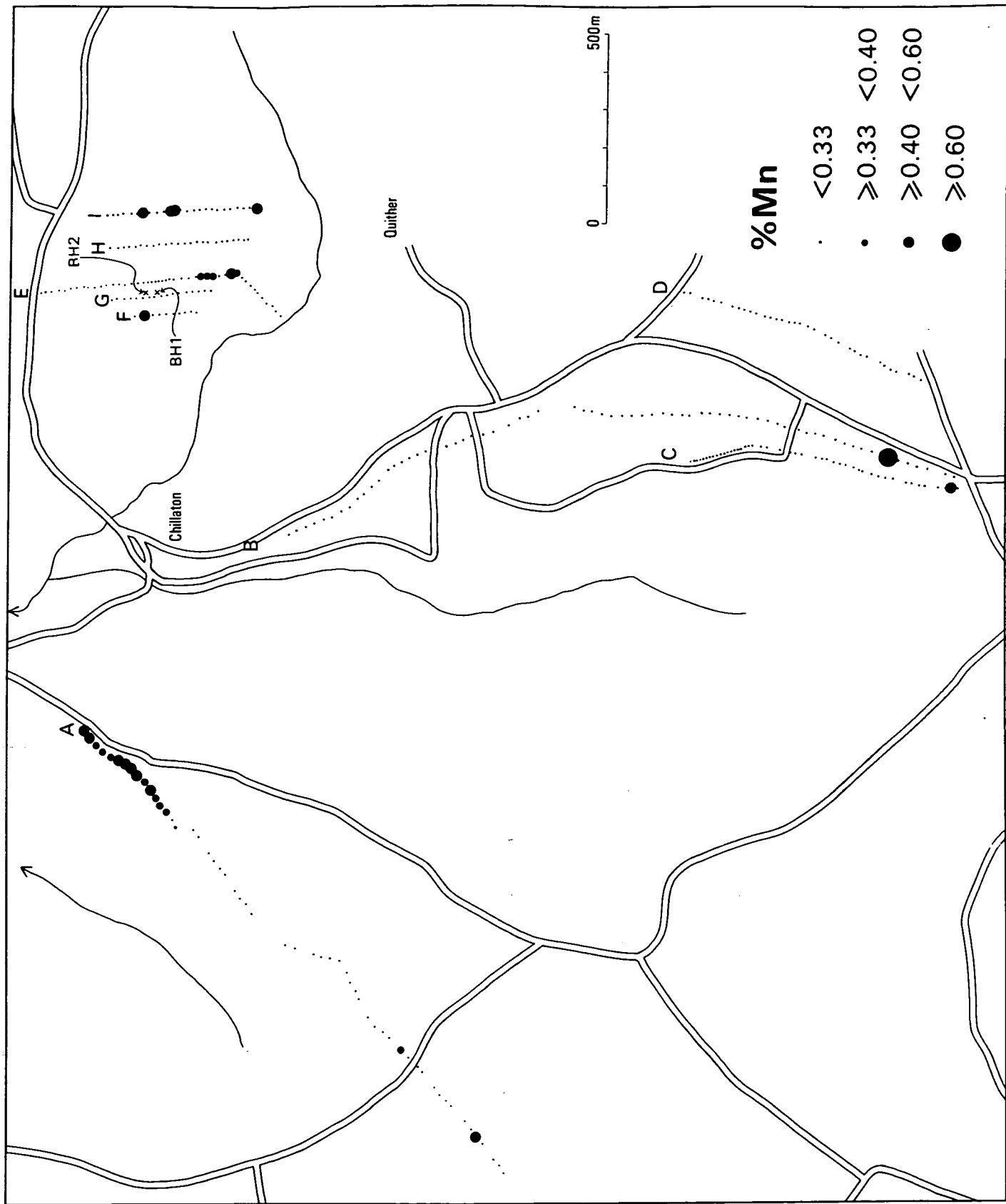


Figure 5 Distribution of manganese in soil samples.

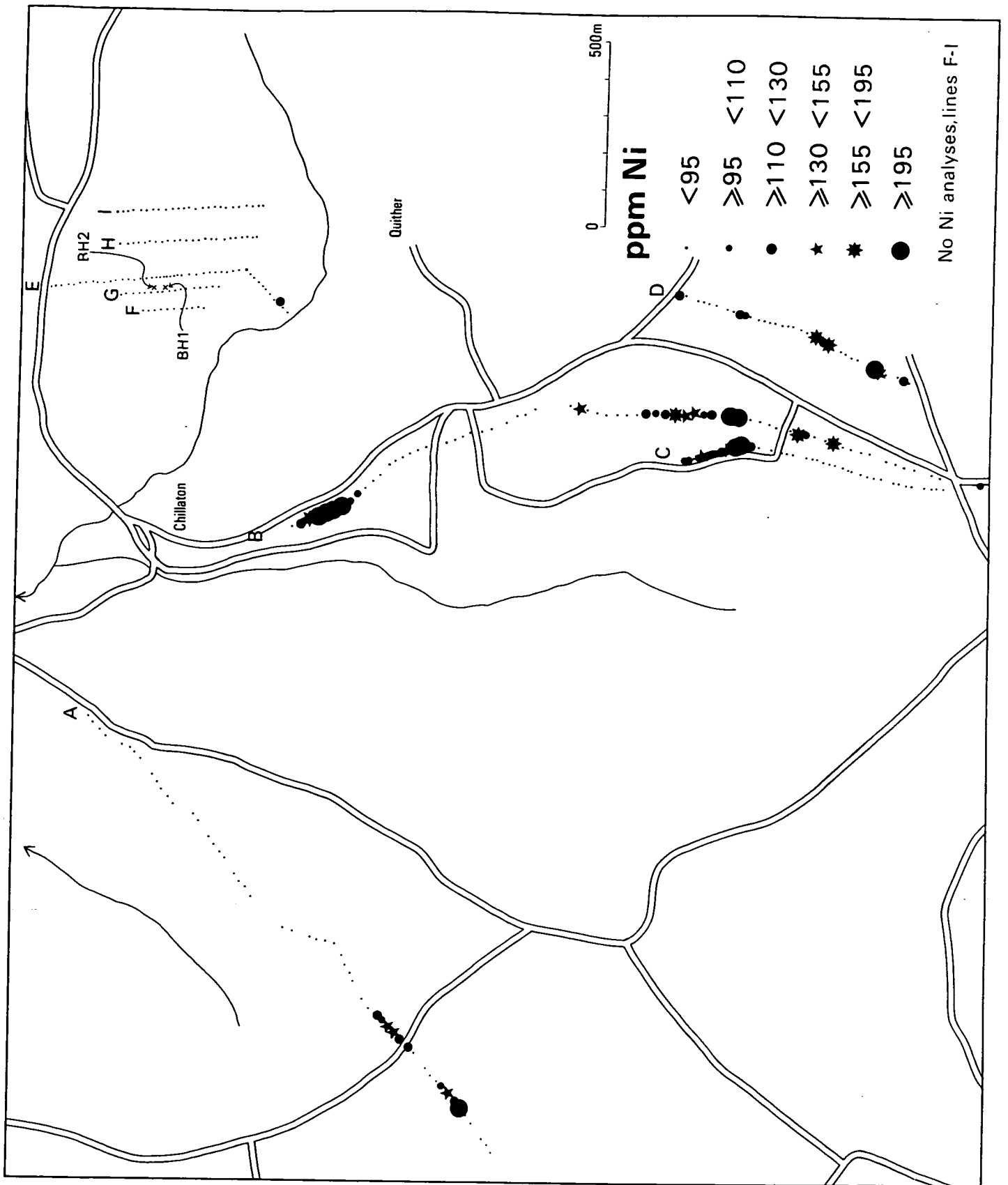


Figure 6 Distribution of nickel in soil samples.

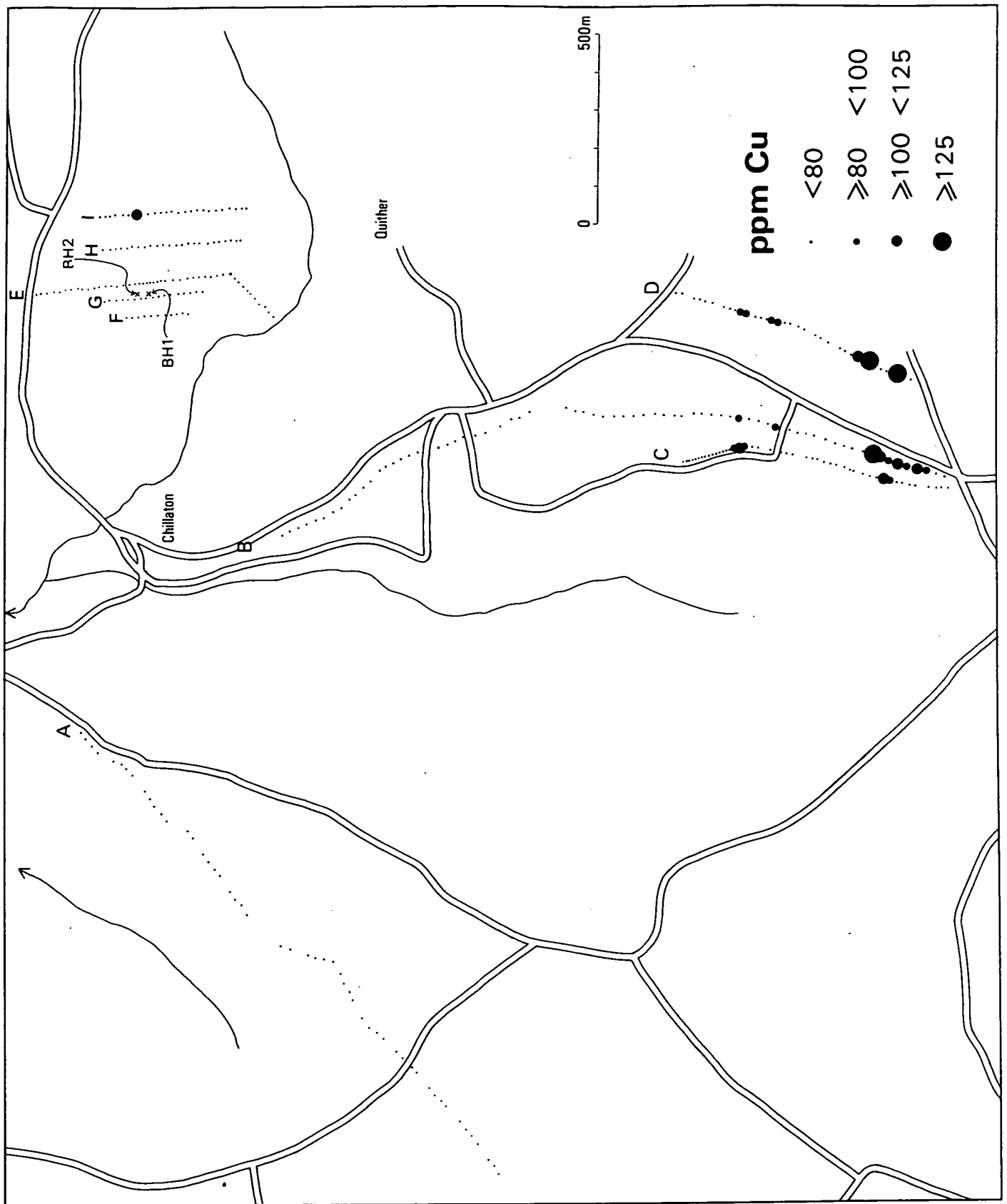


Figure 7 Distribution of copper in soil samples.

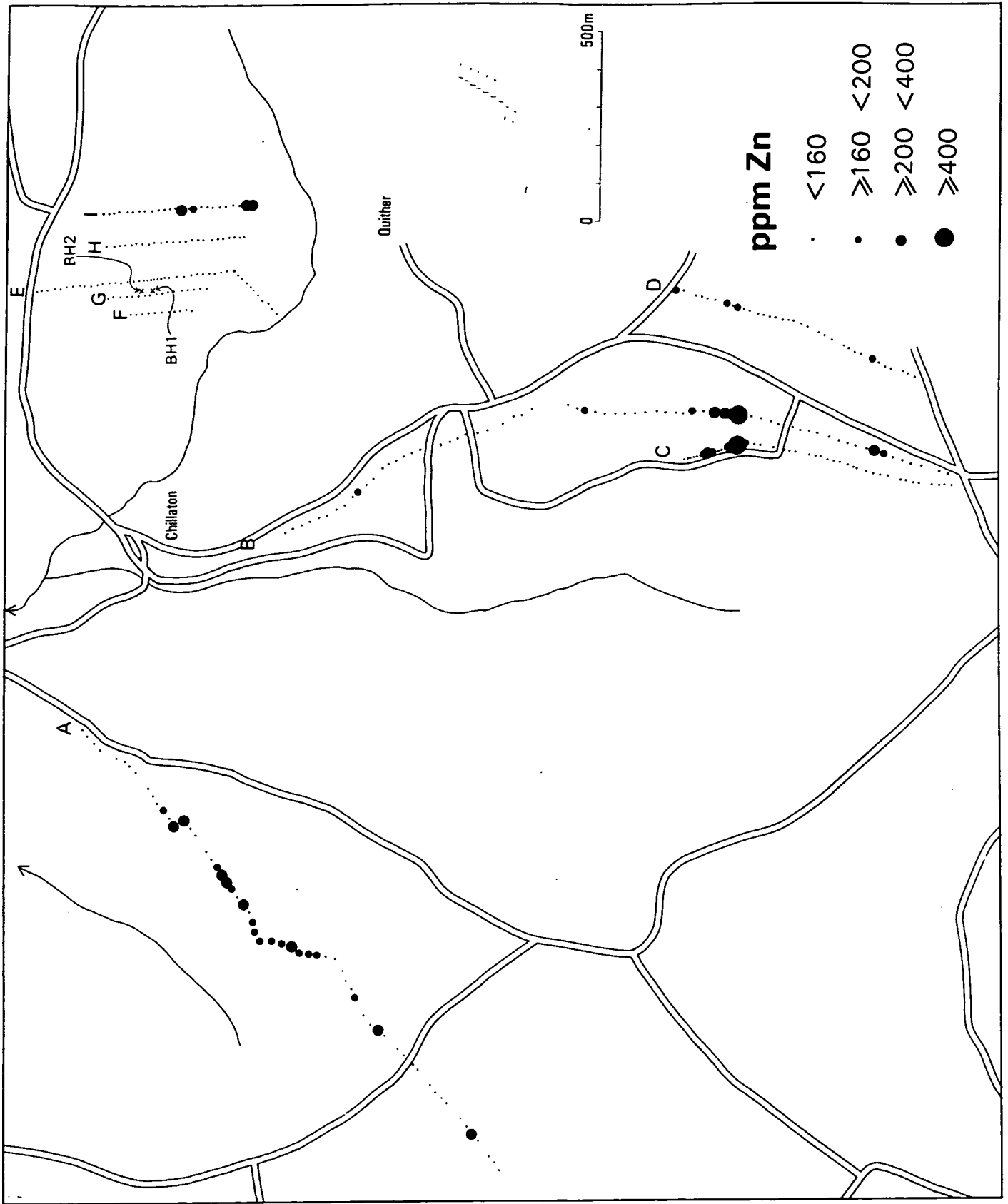


Figure 8 Distribution of zinc in soil samples.

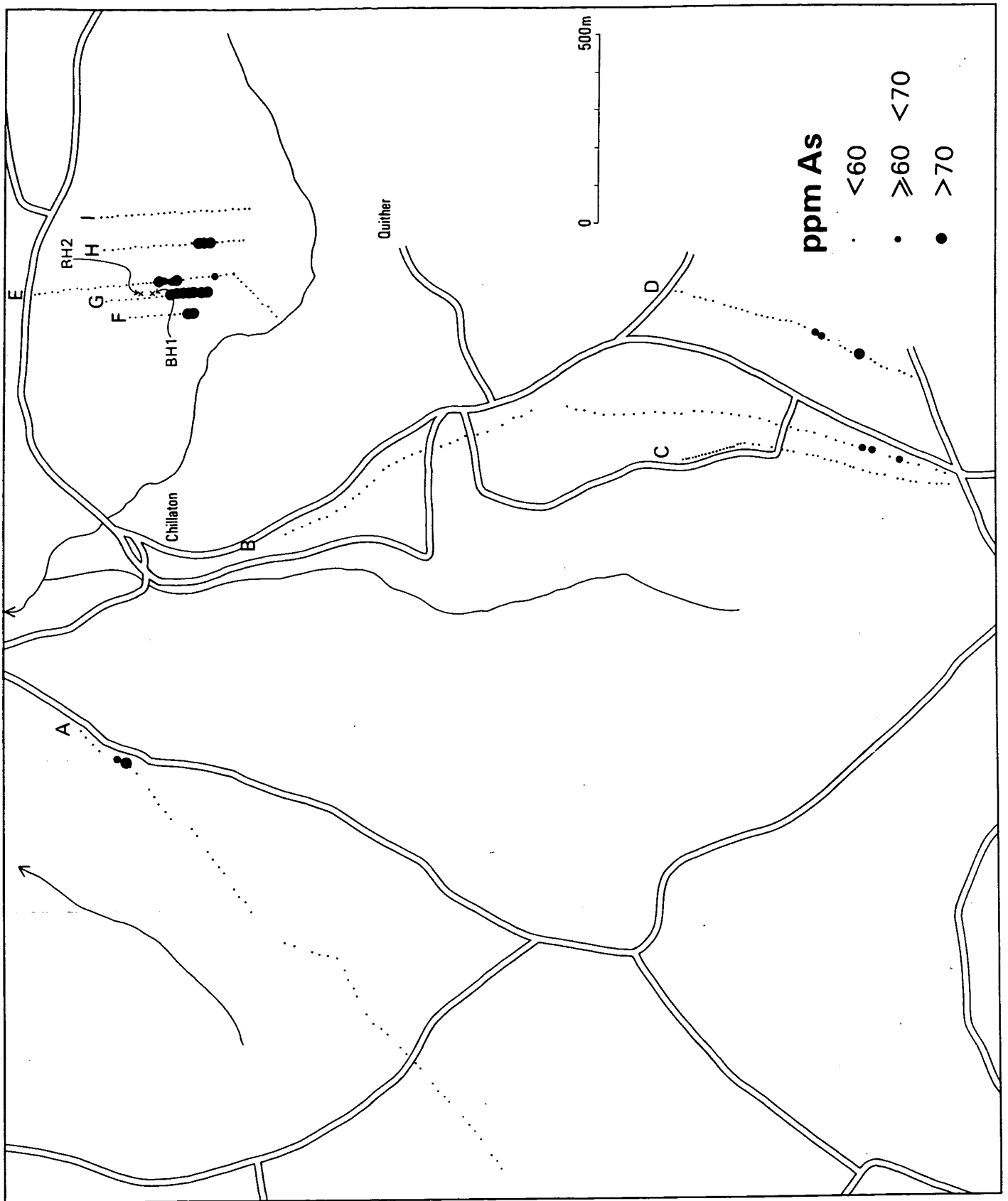


Figure 9 Distribution of arsenic in soil samples.

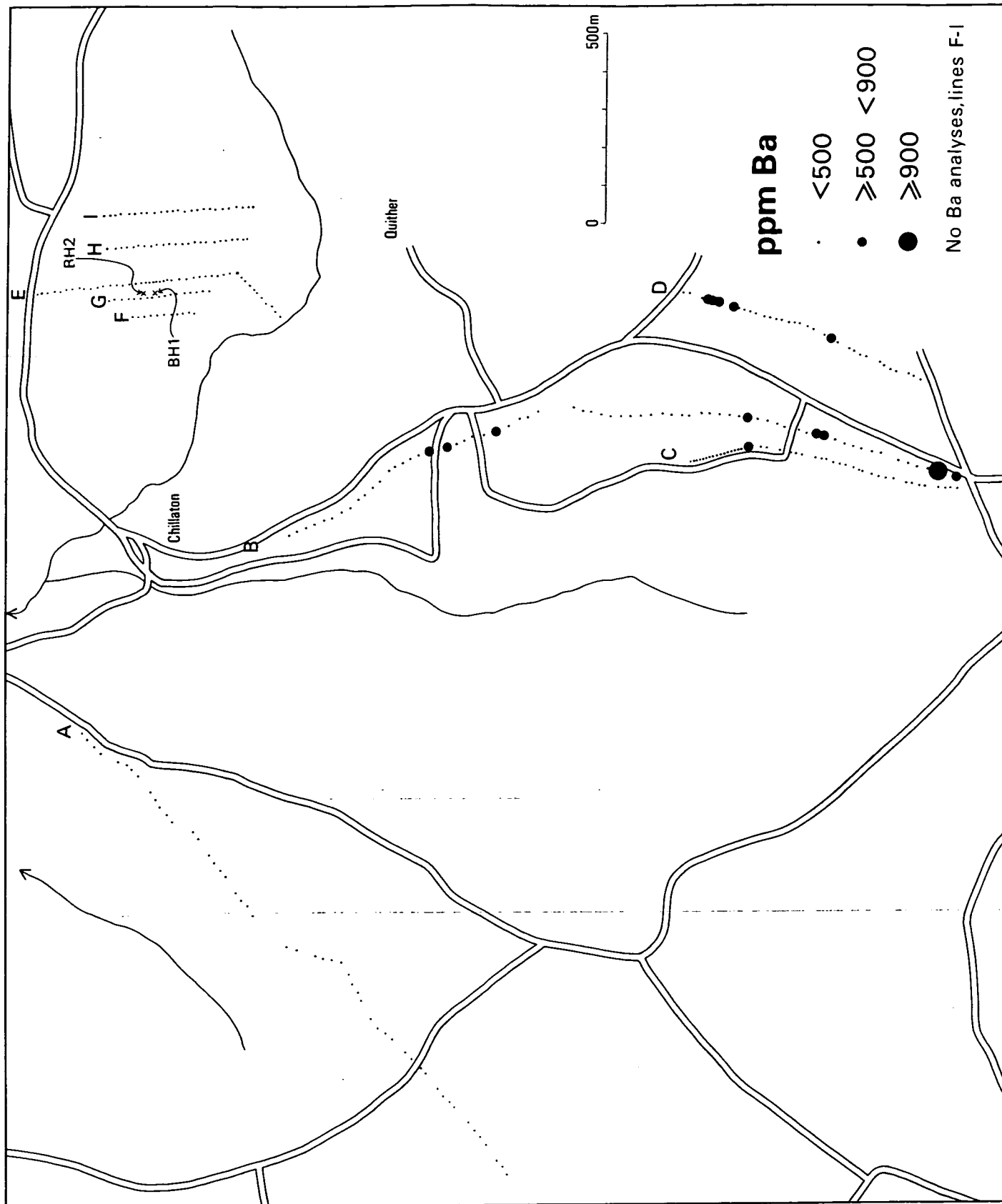


Figure 10 Distribution of barium in soil samples.

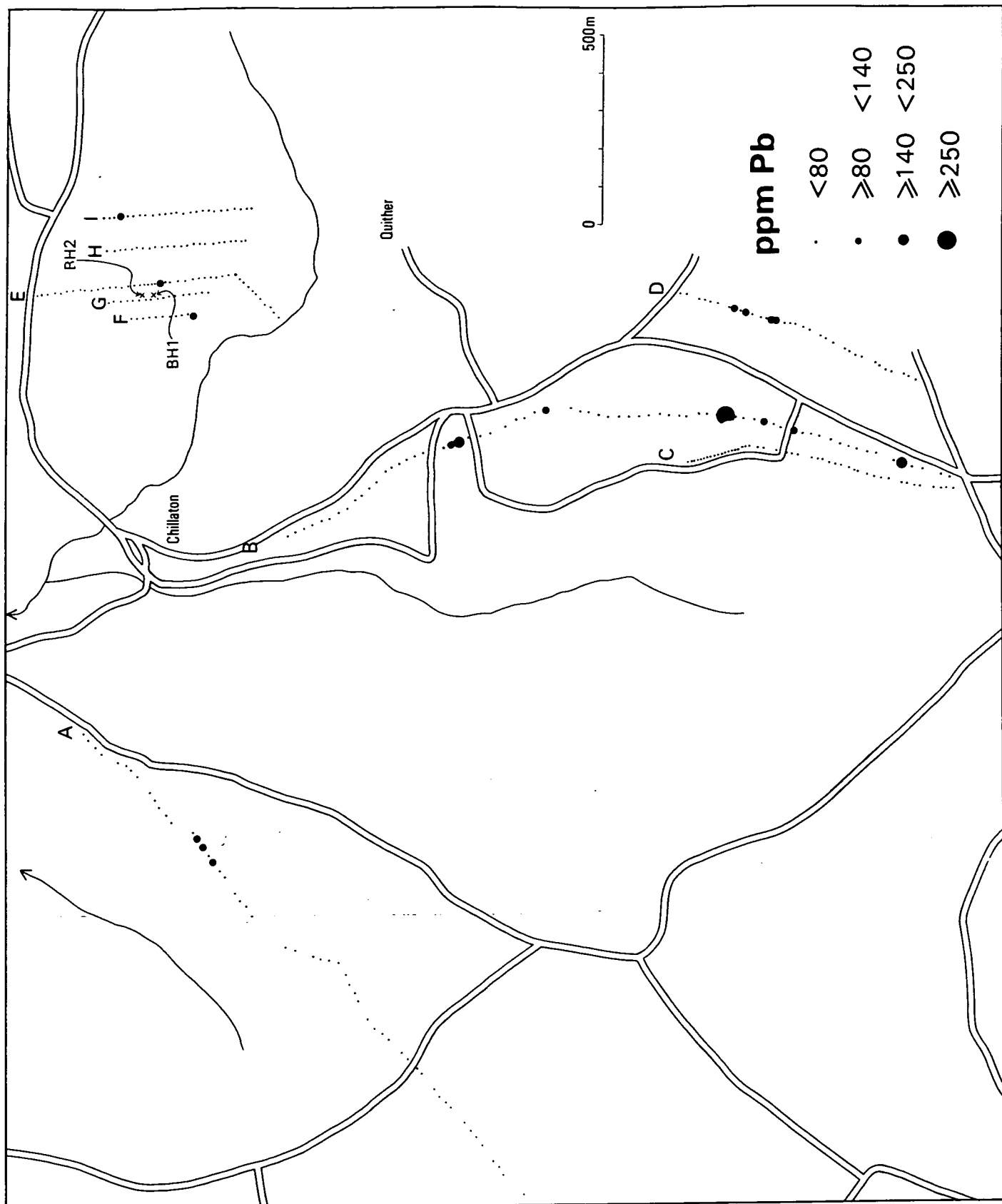


Figure 11 Distribution of lead in soil samples.

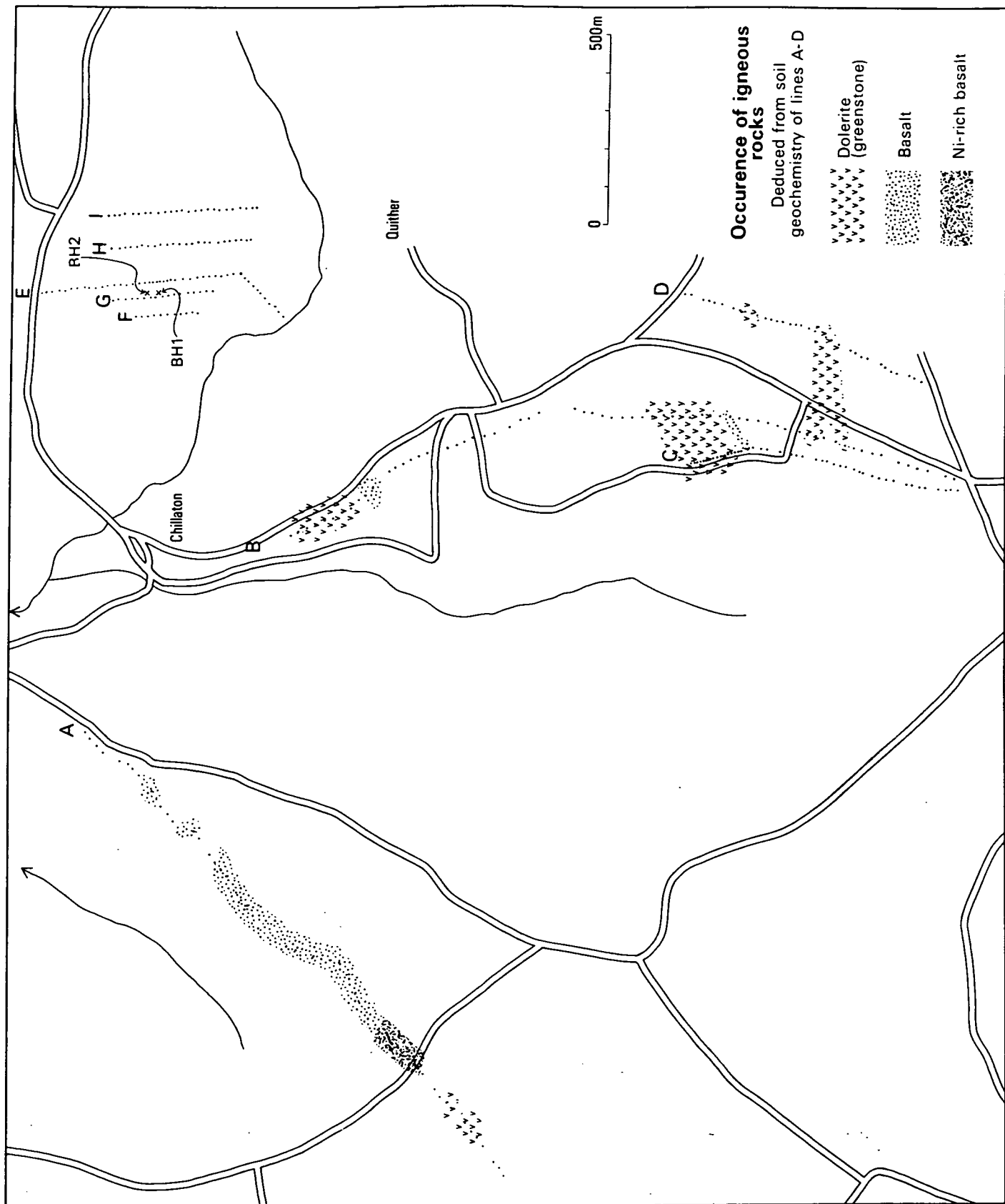


Figure 12 Location of various types of igneous rock deduced from soil geochemistry.

GEOPHYSICAL SURVEYS

Aeromagnetic data

The aeromagnetic data for the area covered by ground traverses is shown in figure 13. These data were collected at a mean terrain clearance of 500 feet (152m) along flight lines spaced approximately 400m apart. The magnetic data give a guide to the general outline of the belt known to be mineralised further to the east and characterised by strong magnetic anomalies.

Ground geophysical data

Geophysical exploration practice in the Spanish pyrite belt (Strauss et al 1980) has concentrated on earth resistivity traversing with detailed gravity surveys over promising low resistivity anomalies. Reconnaissance surveying along 15 lines in the area (Figure 14) using induced polarisation (IP), Very-Low Frequency EM (VLF) and self potential (SP) identified some large SP anomalies (> 0.6 V) and large VLF anomalies ($> 25\%$) in the area to the east of Chillaton village. These anomalies were followed up by further IP work and a detailed gravity survey and formed the target for drilling.

IP measurements were made using Hunttec Mark 3 time-domain equipment with a delay time of 120 msec and a sample time of 60 msec. All data were collected using a dipole-dipole array with a dipole length of 25m and a dipole separation of $n=3$, giving a nominal depth of penetration of 50m. VLF-EM measurements were made using a Geonics EM16 tuned to NAA Cutler Maine and facing south at intervals of 10m. SP measurements were made using a high-impedance voltmeter and two non-polarising electrodes. Potentials are all referred to an arbitrary zero at the origin of line T1.

Geophysical results for the individual traverse lines are given in Rollin (1994). The geophysical data for lines T1 to T7 have been compiled into contour maps and are shown in figures 15 to 18. Apparent resistivities vary from only 3 ohm m to over 1500 ohm m and background values are in the range 300-400 ohm m. A zone of low apparent resistivity follows the stream where it runs north. A second zone of low resistivity trends east-north-east across the ridge in the centre of the area (Figure 15). Background chargeabilities are usually in the range 5-15 msec but there are several zones where they exceed 100 msec, notably across lines T4 and T7 (Figure 16), roughly coincident with a zone of low resistivity (Figure 15). A compilation of the SP observations (Figure 17) shows a northwest-trending zone following the stream towards Chillaton and a closed SP minimum on line T4 with potentials some 250 mV below the arbitrary datum, roughly coincident with the resistivity low and chargeability high. Fraser-filtered in phase VLF data (Figure 18) also indicate a strong linear conductor crossing all lines west of T3.

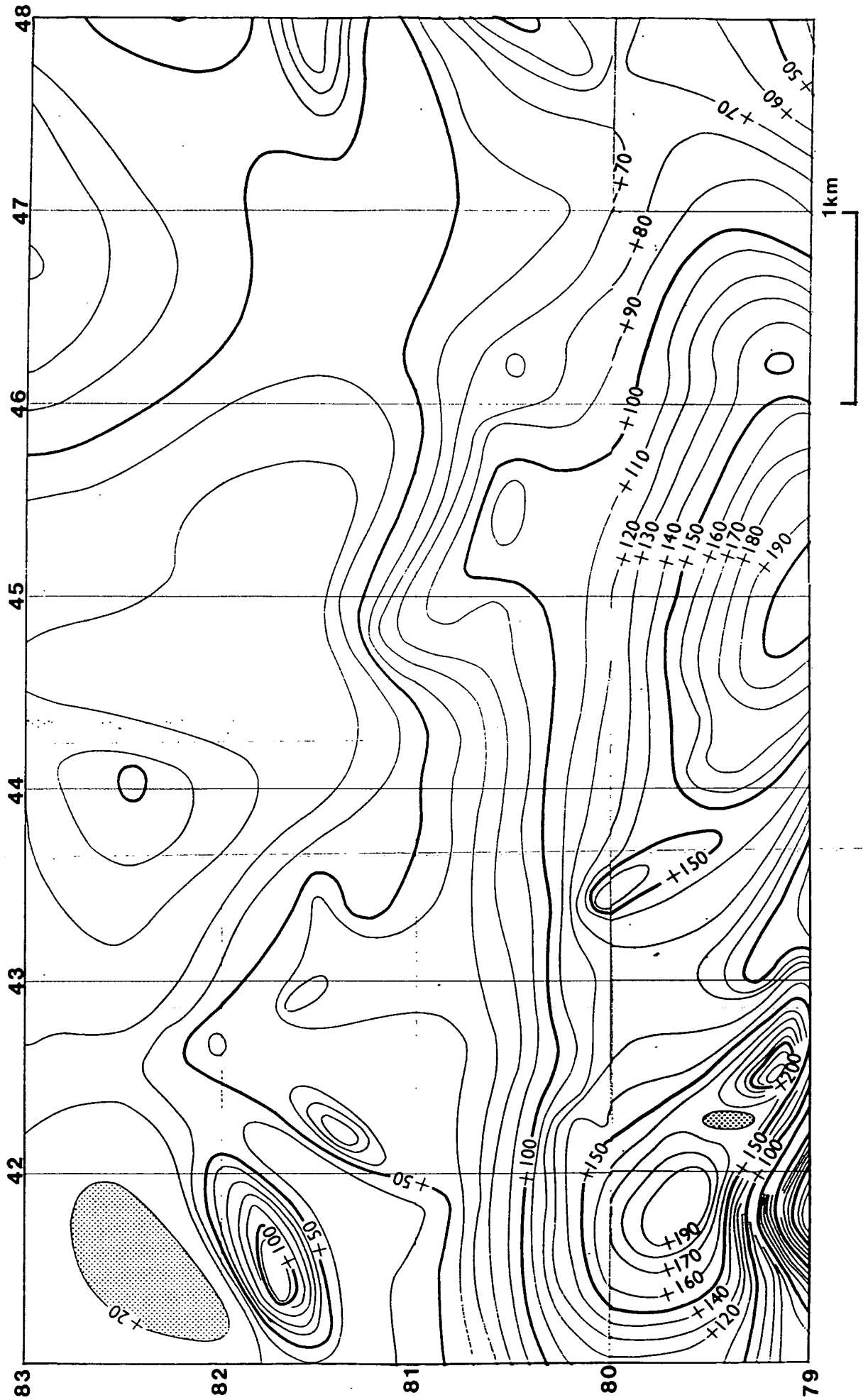


Figure 13 Contoured aeromagnetic data for area covered by ground traverses. Contour interval 10nT.

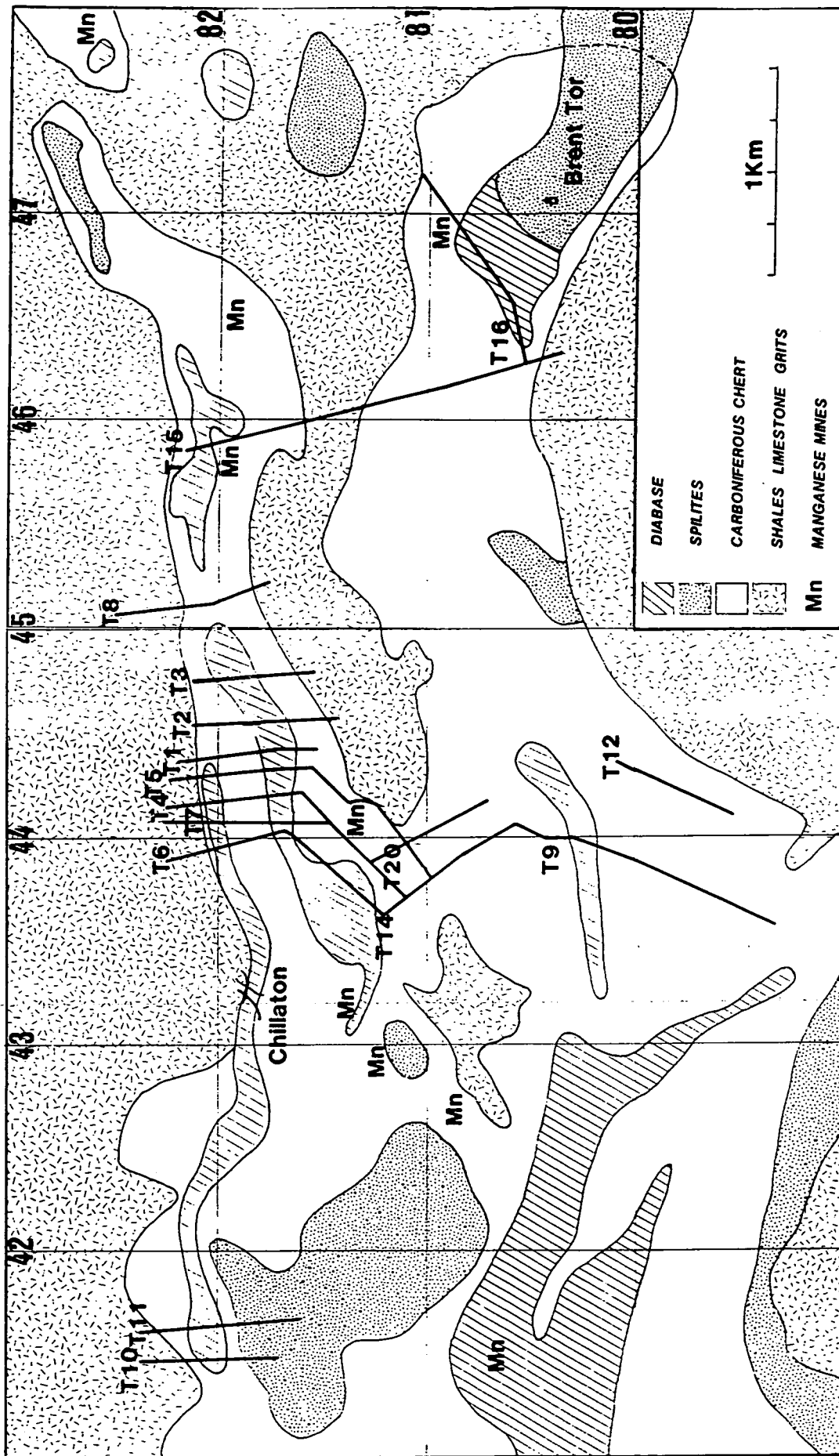


Figure 14 Location of ground geophysical traverses in relation to geology as portrayed on 1:50,000 Tavistock sheet (337).

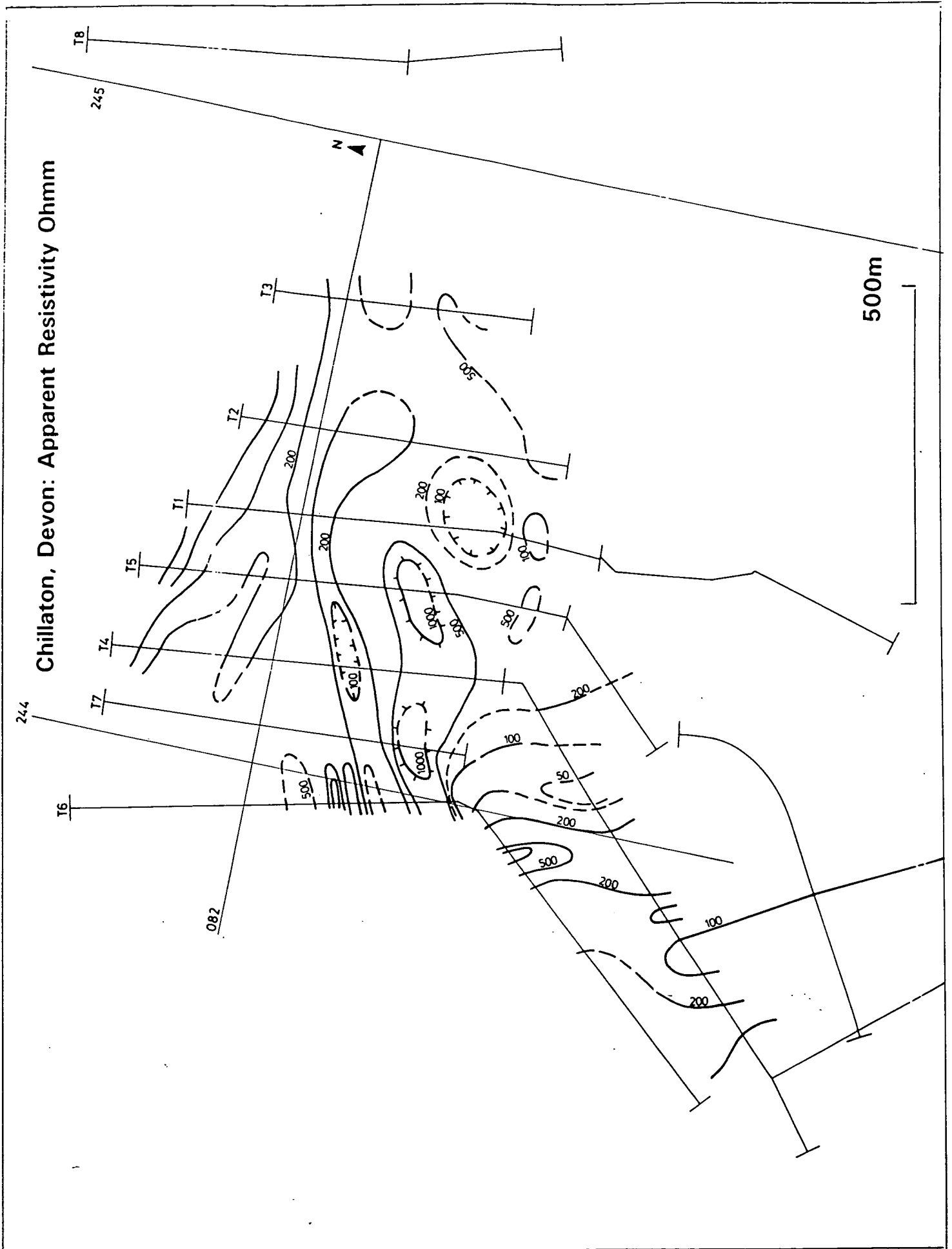


Figure 15 Contoured apparent resistivity in ohm/m for lines T1 to T7.

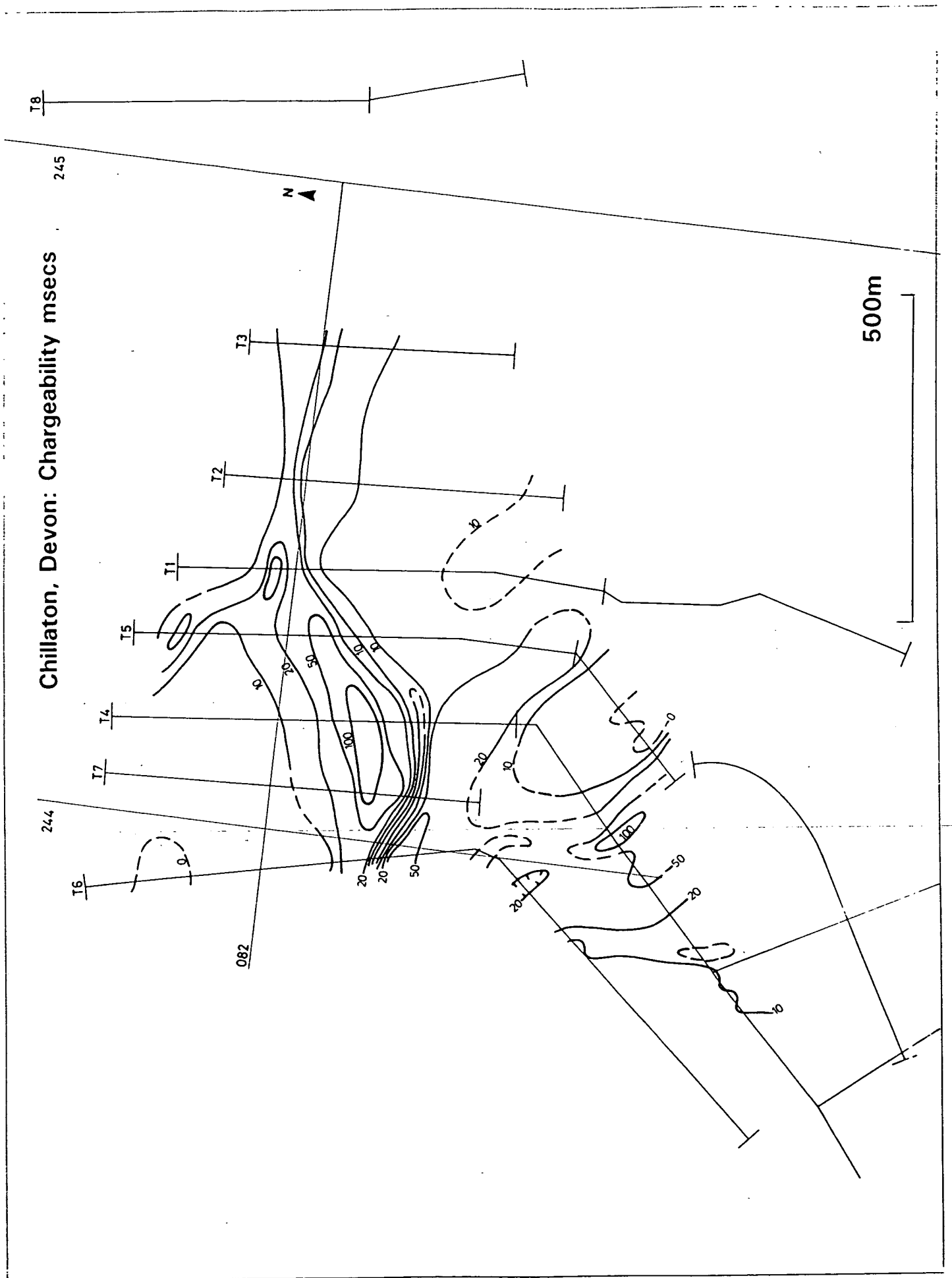


Figure 16 Contoured chargeability in msec for lines T1 to T7.

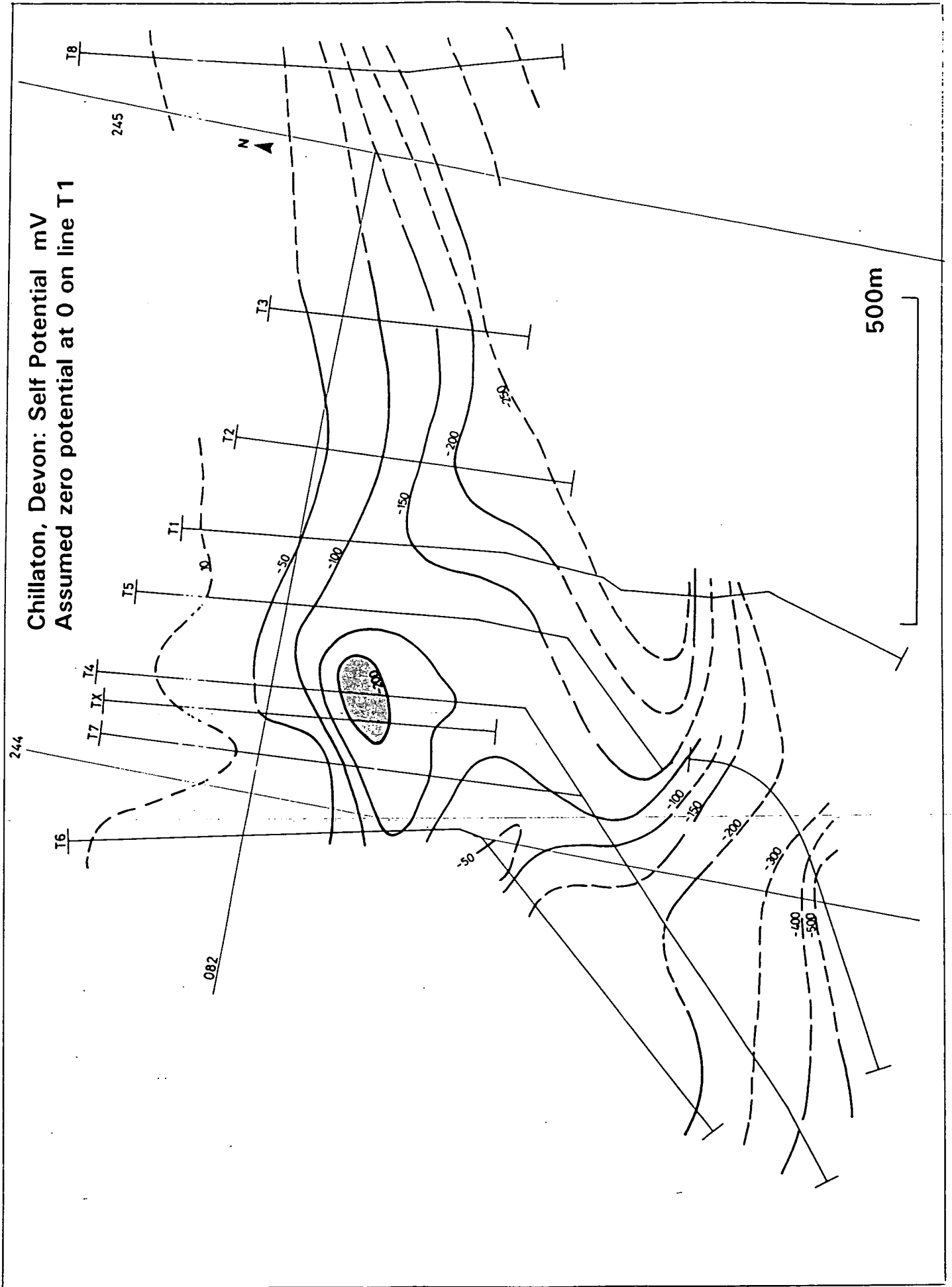


Figure 17 Contoured compilation of self potential mV for lines T1 to T8.

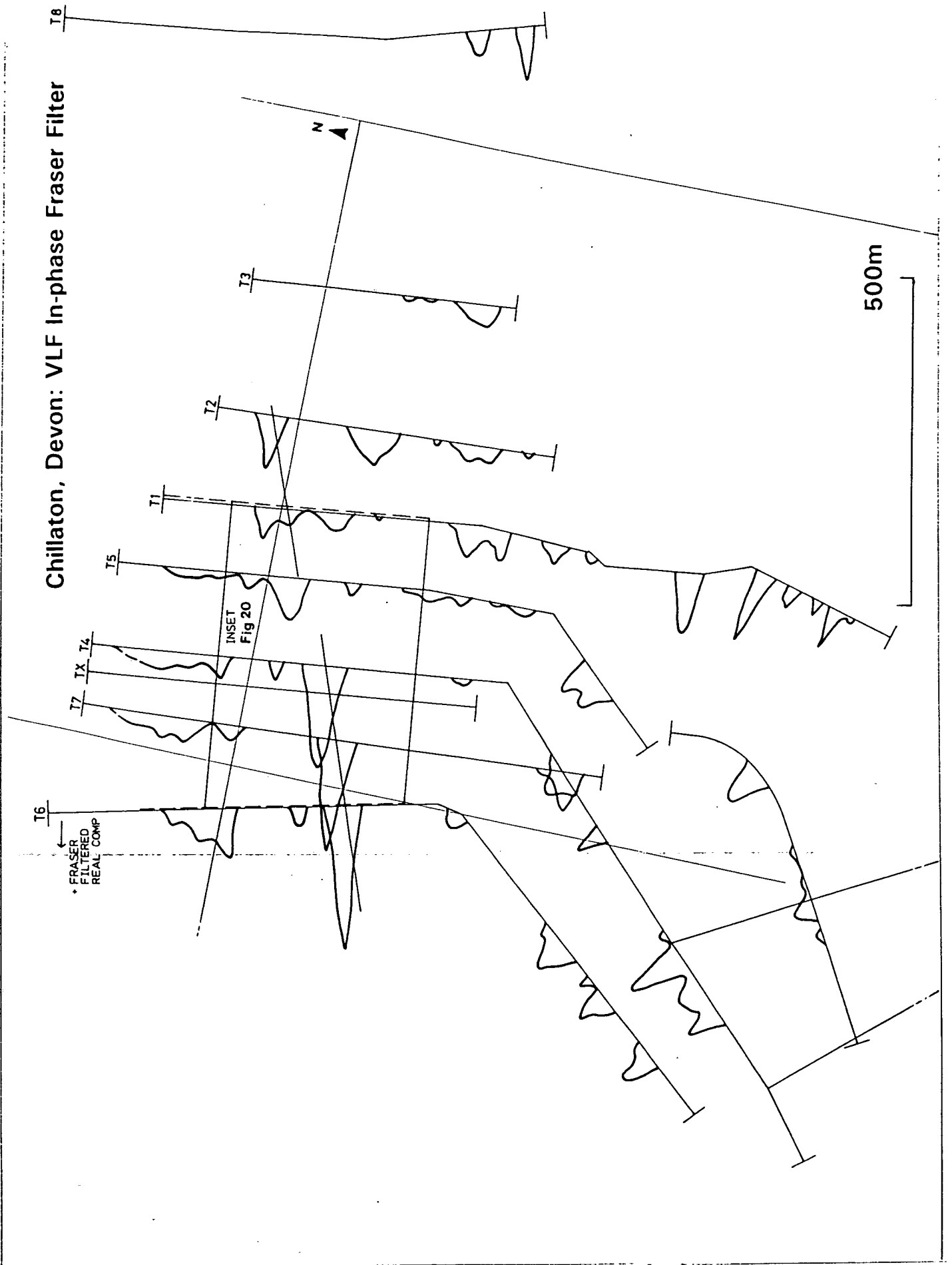


Figure 18 VLF In-phase Fraser Filter data for lines T1 to T8.

A further line (TX) was surveyed between lines T4 and T7 and dipole-dipole IP, VLF-EM, EM15, magnetic, SP and gravity data for this line are shown in Figure 19 together with the results of a detailed Schlumberger gradient array IP survey carried out on three additional short lines on either side of the anomaly on line TX. A residual positive Bouguer gravity anomaly of about 0.20 mGal occurs close to the apparent position of the conductive zone. The presence of the positive gravity anomaly indicates that the conductive rock is relatively dense and therefore unlikely to be simply a graphitic shale. The results of the detailed Schlumberger gradient array suggests that the contact of the resistive boundary dips to the south. The results of current density modelling of the VLF data for lines TX and T7 (Figure 20) do not give a clear indication of the attitude of the conductive layer. A contoured map of the Fraser-filtered in-phase data showing the trend of the anomaly across the area surveyed in detail is also shown in Figure 20.

DRILLING

On the basis of the coincidence between a conductive anomaly and a positive gravity anomaly it was decided to investigate the anomaly by drilling, even though there was little evidence of a geochemical anomaly in association with the geophysical anomaly. The presence of low angle thrusting was suspected on the basis of geological mapping and this was considered a possible reason for lack of geochemical response in the overburden samples to the geophysical anomaly. Two holes were drilled close together with different inclinations so that the dip of the strata could be established. Borehole 1 was sited at 393m S on line TX [SX 44148190] and inclined at 80° to the north. Borehole 2 was sited to the north of borehole 1 at 358m S on line TX [SX 44158193] and inclined at 55° to the south.

The drill holes intersected an overturned sequence of shales, silicified shales, cherts, mafic tuffs and mafic lavas and intrusive dolerites (greenstones) (Figures 21 and 22). The geophysical anomalies were caused by a horizon of pyrite-rich black shale near the top of the holes. The sequence intersected in the second hole (185.6 m in length) passed from sediments of uppermost Fammenian age through the Carboniferous/Devonian boundary into sedimentary and volcanic rocks of Tournasian and Visean ages. The sediments spanning the boundary between the Devonian and Carboniferous are richly fossiliferous and allowed the position of the conformable boundary to be accurately fixed for the first time in Britain (Selwood et al 1982). Details of lithologies, fossils and structures within the core are given in Selwood et al (op cit).

The chemistry of the various units in the two holes are summarised in tables 1 and 2. The sediments at the top of each hole are markedly dissimilar in chemistry. A similar mismatch in fauna between the two prompted excavations at the surface and the postulation of low angle thrusting just below surface (Selwood et al 1982). The pyritic black shale is geochemically similar in both boreholes. It is generally enriched in Mo and perhaps As but not in base metals. There is a marked change in chemistry in the greenstones towards the base of borehole 2. In the upper part of the hole and in borehole 1 the greenstones are relatively evolved in composition, being enriched in Ti (typically 3.2-4.3% TiO₂) and depleted in Cr and Ni (< 10 ppm Cr, 14-41 ppm Ni). In contrast, the two greenstones from the lower part of the hole are similar in composition to the lavas lower down the hole and also to the tuff near the top of the hole and much more primitive with enrichment in Cr and Ni (270-444 ppm Cr, 153-200 ppm Ni).

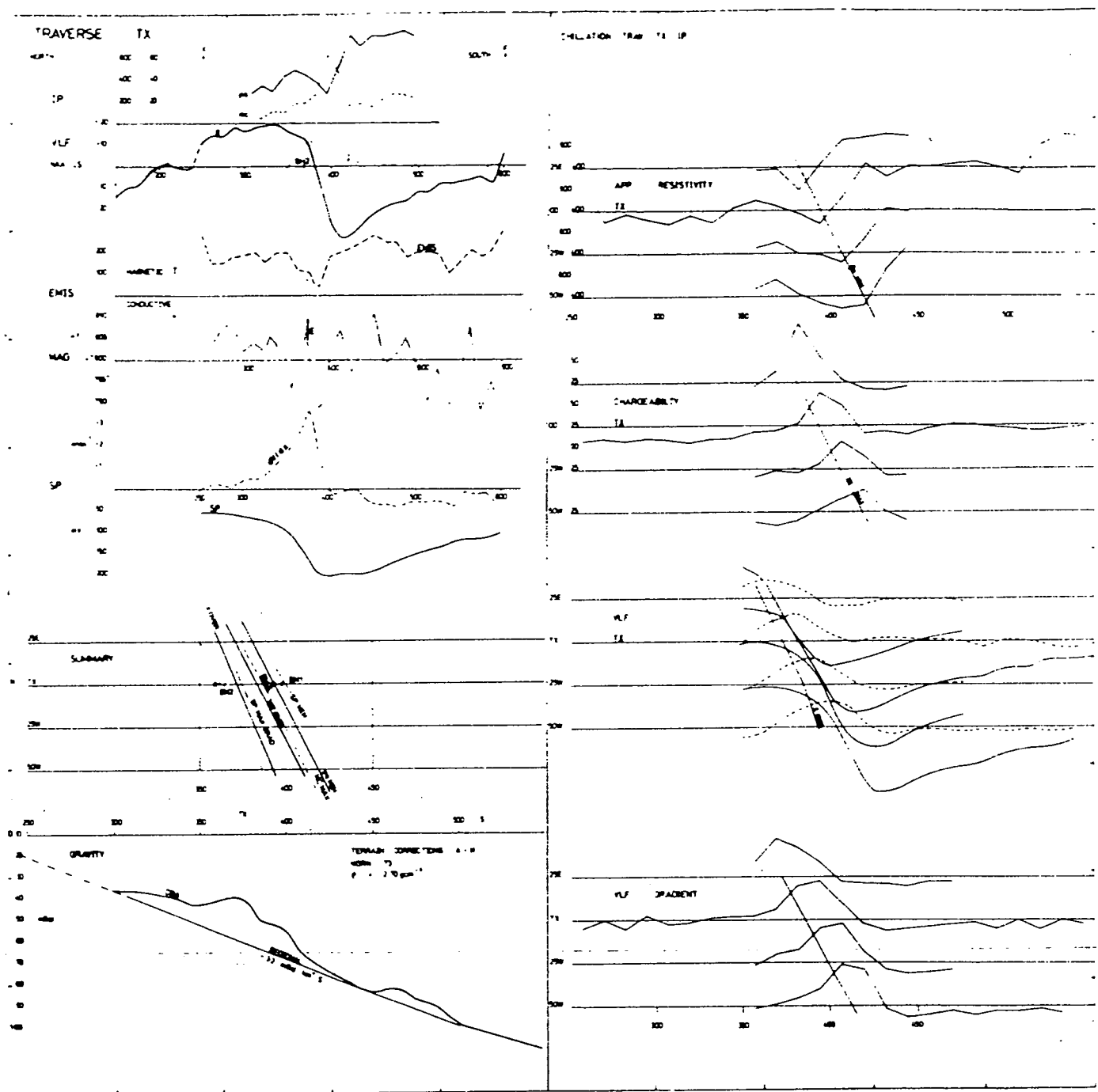


Figure 19 Dipole-dipole IP, VLF-EM, EM15, magnetic, SP and gravity data for additional line (TX) and detailed Schlumberger gradient array IP data on line TX and three adjacent short lines.

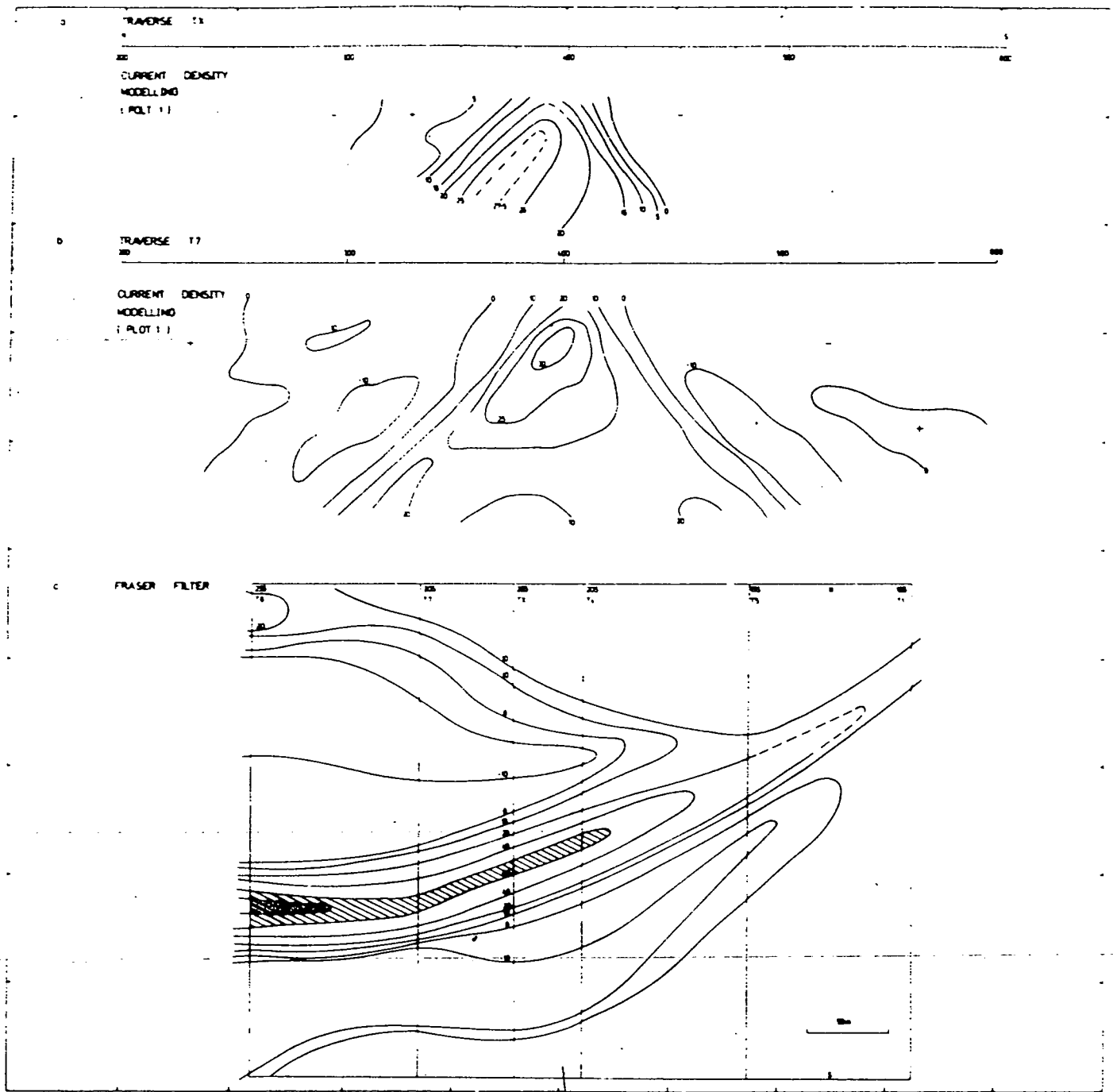


Figure 20 Current density modelling of the VLF data for lines Tx and T7 and contoured map of Fraser-filtered in-phase data for lines T1, T4-T7 and TX.

Location SX 44148190 Azimuth 0° Inclination 80°

CHILLATON BH 1

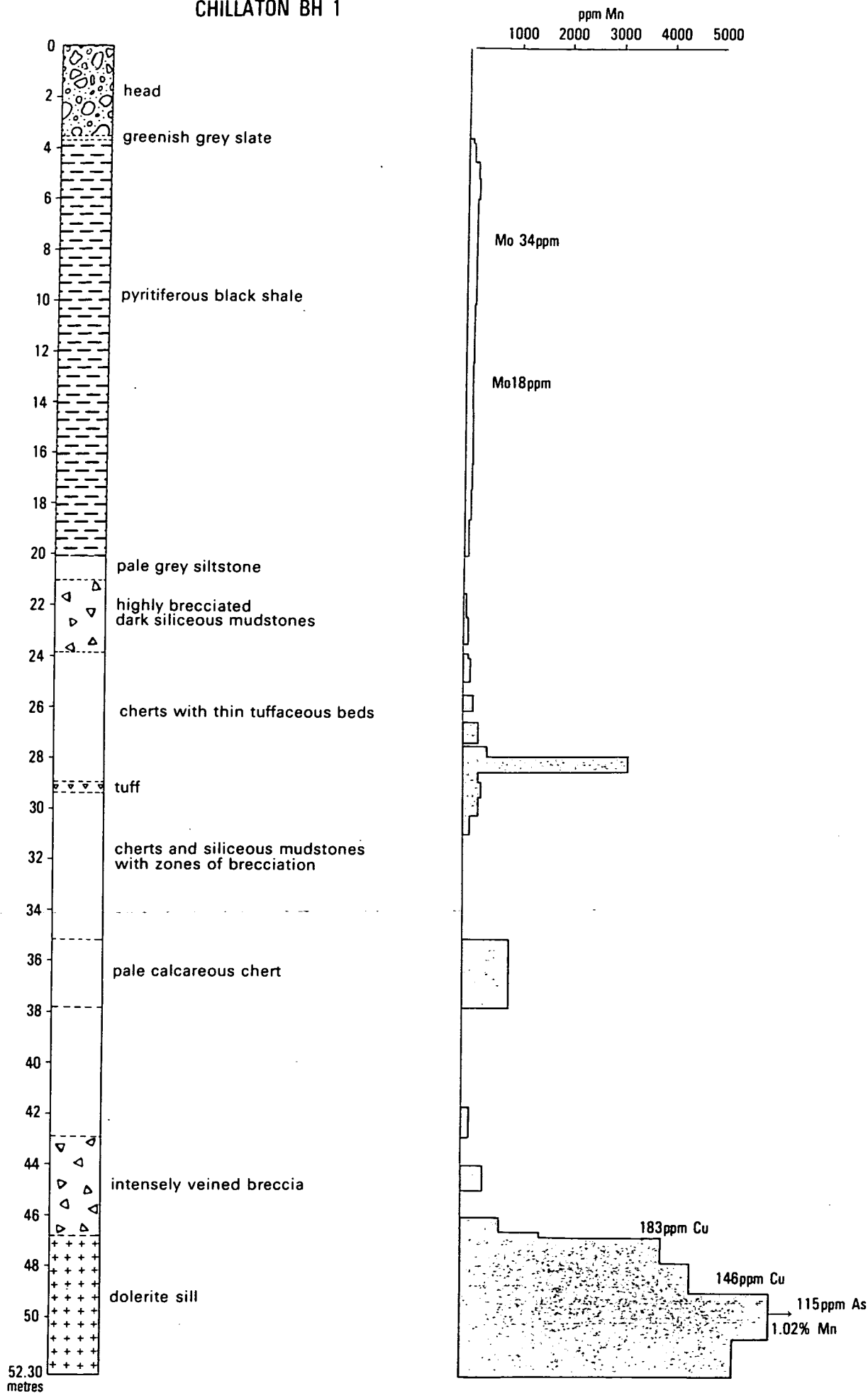


Figure 21 Graphic log of Chillaton borehole 1 together with graphic representation of Mn content of core. Samples containing higher concentrations of Mo, Cu and As are also shown.

Location SX 44158193 Azimuth 180° Inclination 55°

CHILLATON BH 2

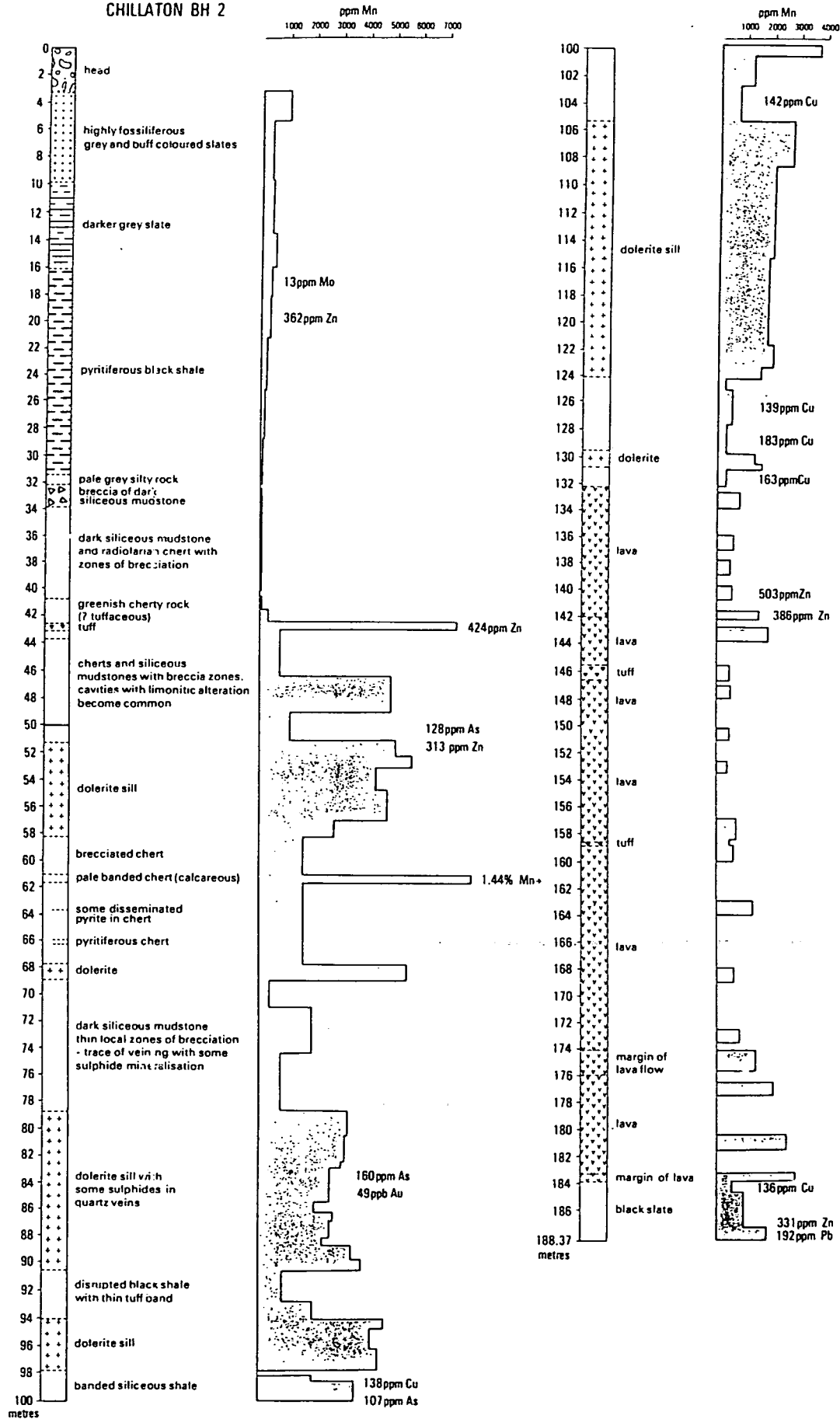


Figure 22 Graphic log of Chillaton borehole 2 together with graphic representation of Mn content of core. Samples containing higher concentrations of Zn, Mo, As, Cu, Pb and Au are also shown.

Concentrations of manganese in the core are plotted graphically together with the core logs for the two boreholes in figures 21 and 22. Enrichment in manganese (maximum 1.02% Mn) is associated with the greenstone intrusions and sediments immediately adjacent. The magnitude of manganese enrichment is lower in association with the greenstones and lavas in the lower part of borehole 2 (figure 22) than higher up this borehole. The manganese is probably present as carbonate. Manganese enrichment is also associated with some chert horizons (maximum 1.44% Mn) but in most cases this seems related to veining, probably associated with the greenstones. No enrichment in Mn is associated with the pyritic black shale horizon.

Chemical analyses of the core samples were augmented with XRF scans of panned drill sludges. These samples detected minor amounts of sphalerite and, to a lesser extent, chalcopyrite which correlated generally with intervals in the core showing enrichment in Zn or Cu. No base-metal mineralisation of significance was intersected by the boreholes. However, minor amounts of Zn, Cu and, to a lesser extent, Pb do occur frequently in the core especially in association with the greenstones and, more particularly, with sediments adjacent to these intrusions. Enrichment in Zn and As (Maxima 315 ppm Zn, 130 ppm As) occurs in several of the greenstone samples. In addition several samples of slate between greenstone intrusions are enriched in Ni, Cu and As (maxima 233 ppm Ni, 183 ppm Cu, 107 ppm As). In addition there are more isolated samples of sediments showing enrichment in Zn and Pb (maxima 362 ppm Zn, 192 ppm Pb) and of volcanics showing enrichment in the same elements (maxima 503 ppm Zn, 84 ppm Pb) and of As enrichment in greenstone (maximum 160 ppm As). The As-rich greenstone sample is of interest in being the only sample containing detectable gold (49 ppb) out of 19 samples covering the main rock types analysed.

REFERENCES

- DINES, H G. 1956. The metalliferous mining region of south-west England. *Economic Memoir of the Geological Survey of Great Britain, London, HMSO.*
- ROLLIN, K E. 1994 Geophysical surveys at Chillaton, Tavistock, Devon. *British Geological Survey Technical Report WK/94/2*
- SELWOOD, E B, STEWART, I J, TURNER P J and WHITELEY M J. 1982. The Devonian-Carboniferous transition and its structural setting at Chillaton, west Devon, England. *Geological Magazine.* 119, 383-393.
- STRAUSS, G K, MADEL, J and FERNANDEZ ALSONO, F. 1977. Exploration practice for strata-bound deposits in the Spanish-Portugese pyrite belt: Geology, geophysics and geochemistry. *In Klemm, D D and Schneider, H J. Time and strata-bound ore deposits, Springer Verlag, Berlin.* 55-93.
- TURNER, P J. 1981. Aspects of the structure of the Chillaton area, S.W. Devonshire. *Proceedings of the Ussher Society.* 5, 153-162.

FIGURES

Figure 1 Geological map of the Chillaton area based on original 1:50,000 Tavistock sheet (337) showing reconnaissance soil lines and main locations of manganese mineralisation.

Figure 2 Map showing location of soil samples and collars of the two boreholes.

Figure 3 Distribution of boron in soil samples; location of samples with highest uranium contents also shown.

Figure 4 Distribution of titanium in soil samples.

Figure 5 Distribution of manganese in soil samples.

Figure 6 Distribution of nickel in soil samples.

Figure 7 Distribution of copper in soil samples.

Figure 8 Distribution of zinc in soil samples.

Figure 9 Distribution of arsenic in soil samples.

Figure 10 Distribution of barium in soil samples.

Figure 11 Distribution of lead in soil samples.

Figure 12 Location of various types of igneous rock deduced from soil geochemistry.

Figure 13 Contoured aeromagnetic data for area covered by ground traverses. Contour interval 10nT.

Figure 14 Location of ground geophysical traverses in relation to geology as portrayed on 1:50,000 Tavistock sheet (337).

Figure 15 Contoured apparent resistivity in ohm/m for lines T1 to T7.

Figure 16 Contoured chargeability in msec for lines T1 to T7.

Figure 17 Contoured compilation of self potential mV for lines T1 to T8.

Figure 18 VLF In-phase Fraser Filter data for lines T1 to T8.

Figure 19 Dipole-dipole IP, VLF-EM, EM15, magnetic, SP and gravity data for additional line (TX) and detailed Schlumberger gradient array IP data on line TX and three adjacent short lines.

Figure 20 Current density modelling of the VLF data for lines Tx and T7 and contoured map of Fraser-filtered in-phase data for lines T1, T4-T7 and TX.

Figure 21 Graphic log of Chillaton borehole 1 together with graphic representation of Mn content of core. Samples containing higher concentrations of Mo, Cu and As are also shown.

Figure 22 Graphic log of Chillaton borehole 2 together with graphic representation of Mn content of core. Samples containing higher concentrations of Zn, Mo, As, Cu, Pb and Au are also shown.

TABLES

Table 1 Summary chemistry of Chillaton borehole 1

Table 2 Summary chemistry of Chillaton borehole 2

DATA NOTE

Soil samples DCS 5501 to DCS 5577 have been renumbered on the MRP database as DCS 9901 to DCS 9977.

Table 1. Summary chemistry of borehole 1

lithology	depth	B	CaO	TiO ₂	V	Cr	Mn	Fe ₂ O ₃	Co	Ni	Cu	Zn	As
	m.	ppm	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
grey shale(1)	3.58 3.71	167	0.056	1.02	185	115	90	3.34	<10	19	11	35	
black shale(14)	3.71 20.11	137 <i>124</i>	0.046 <i>0.025</i>	0.91 <i>0.82</i>	235 <i>127</i>	87 <i>66</i>	176 <i>90</i>	7.86 <i>5.00</i>	11 <10	58 <i>38</i>	39 <i>28</i>	96 <i>48</i>	
		153	<i>0.071</i>	<i>0.97</i>	331	110	230	10.07	19	77	54	177	
brecciated chert(3)	21.64 24.00	49 <i>35</i>	0.050 <i>0.028</i>	0.20 <i>0.20</i>	55 <i>42</i>	26 <i>24</i>	80 <i>70</i>	2.95 <i>2.40</i>	<10 <10	38 <i>23</i>	63 <i>55</i>	32 <i>29</i>	7 4
		65	<i>0.090</i>	<i>0.21</i>	71	28	90	3.64	<10	47	78	36	12
chert(6)	24.00 28.95	38 <i>22</i>	0.037 <i>0.024</i>	0.41 <i>0.18</i>	48 <i>24</i>	29 <i>23</i>	762 <i>120</i>	9.20 <i>4.40</i>	11 <10	82 <i>32</i>	44 <i>20</i>	98 <i>42</i>	5 <1
		58	<i>0.067</i>	<i>0.67</i>	72	33	3200	12.61	22	151	70	133	20
tuff(1)	28.95 29.70	82	0.350	2.55	247	300	350	18.19	58	132	108	214	14
chert(2)	29.70 31.00	37 <i>28</i>	0.037 <i>0.028</i>	0.41 <i>0.27</i>	48 <i>58</i>	29 <i>31</i>	215 <i>130</i>	7.19 <i>3.12</i>	12 <10	63 <i>36</i>	51 <i>45</i>	92 <i>47</i>	3 2
		45	<i>0.092</i>	<i>0.56</i>	65	48	300	11.25	19	90	57	137	3
calc chert(1)	35.15 37.85	26	7.73	0.41	52	40	900	10.32	22	57	30	65	<1
chert(1)	41.78 42.90	51	0.045	0.21	52	25	170	3.03	<10	35	29	53	5
brecciated chert(3)	44.00 46.80	41 <i>30</i>	0.177 <i>0.060</i>	0.24 <i>0.16</i>	64 <i>36</i>	23 <10	897 <i>410</i>	5.88 <i>3.10</i>	29 18	84 <i>45</i>	75 <i>16</i>	103 <i>21</i>	32 14
		55	<i>0.316</i>	<i>0.31</i>	111	35	1520	10.95	50	154	183	164	60
greenstone (4)	47.0 52.3	32 <10	5.80 <i>5.05</i>	2.48 <i>2.23</i>	228 <i>179</i>	<10 <10	5950 <i>3890</i>	16.85 <i>15.61</i>	34 28	41 <i>20</i>	45 <i>7</i>	214 <i>162</i>	67 40
		53	<i>6.52</i>	<i>2.84</i>	296	13	10170	19.08	45	64	146	246	115

Bold = mean, *italic* = minimum, light = maximum, (4) = number of samples.

Table 1. Summary chemistry of borehole 1 (continued)

lithology	depth	Rb	Sr	Y	Zr	Nb	Mo	Sb	Ba	Ce	Pb	Th	U
	m.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
grey shale(1)	3.58	290	140	31	209	23	1	3	504	50	29	15	4
	3.71												
black shale(14)	3.71	251	104	29	168	20	7	8	466	54	38	13	5
	20.11	224	71	22	146	17	<1	<1	357	40	27	10	3
		273	125	34	195	23	34	14	742	61	50	14	7
brecciated chert(3)	21.64	75	16	15	69	11	1	7	90	38	32	4	1
	24.00	65	13	13	67	10	<1	2	85	32	23	2	<1
		91	22	18	72	12	1	10	96	46	39	5	3
chert(6)	24.00	63	17	23	147	25	<1	4	101	62	8	6	1
	28.95	27	10	11	67	7	<1	1	48	36	3	2	<1
		122	34	40	265	62	<1	8	141	116	14	10	2
tuff(1)	28.95	147	27	28	169	18	3	1	209	49	18	3	2
	29.70												
chert(2)	29.70	69	11	23	117	24	<1	3	127	60	18	4	1
	31.00	60	10	17	82	14	<1	3	114	53	11	3	<1
		78	12	28	152	33	<1	3	140	67	25	5	1
calc chert(1)	35.15	5	261	6	24	<1	<1	1	77	23	5	1	<1
	37.85												
chert(1)	41.78	56	10	12	48	3	<1	2	114	41	25	3	<1
	42.90												
brecciated chert(3)	44.00	40	15	15	62	7	23	5	213	45	21	3	2
	46.80	24	12	10	36	3	<1	4	134	18	6	3	<1
		65	18	23	90	10	68	5	283	64	37	4	4
greenstone (4)	47.0	48	140	24	119	19	1	6	141	41	15	2	1
	52.3	22	73	20	103	15	<1	3	52	30	8	1	<1
		65	206	27	136	21	2	8	218	47	23	2	1

Table 2. Summary chemistry of borehole 2

lithology	depth	B	CaO	TiO ₂	V	Cr	Mn	Fe ₂ O ₃	Co	Ni	Cu	Zn	As
	m.	ppm	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
grey & buff shale(4)	3.36	147	0.040	0.93	108	56	548	10.10	14	68	29	138	8
	16.12	167	0.064	0.98	138	63	980	10.87	20	80	33	159	18
black shale(6)	16.12	186	0.055	0.90	225	67	210	7.94	14	62	40	160	26
	31.40	228	0.062	0.97	347	87	360	8.75	21	70	49	362	42
silty shale(1)	32.40	102	0.031	0.65	103	45	70	6.07	<10	50	36	70	10
	32.15												
brecciated chert(1)	32.45	113	0.025	0.26	34	22	50	2.82	14	43	61	61	13
	37.60												
chert(3)	37.60	37	0.051	0.29	29	22	170	6.38	<10	55	36	72	4
	42.60	61	0.102	0.35	47	26	360	12.58	<10	58	44	117	4
tuff(1)	42.60	47	0.46	2.70	239	268	7440	22.76	59	151	83	424	18
	43.10												
chert(3)	43.10	41	0.054	0.25	49	26	2293	5.60	47	71	56	183	24
	51.14	55	0.070	0.35	57	34	4940	6.07	99	93	73	299	43
greenstone(5)	51.24	38	3.78	4.08	332	<10	4594	22.21	46	38	17	270	68
	58.25	85	5.97	4.61	485	18	5740	23.67	57	51	30	313	128
brecciated chert(1)	58.25	83	0.036	0.35	87	55	680	4.34	22	66	5	72	21
	61.00												
calcareous chert(1)	61.0	<10	7.71	0.032	15	15	14360	6.72	<10	18	41	187	5
	61.6												
brecciated chert(1)	61.6	50	1.32	0.33	81	44	1670	4.76	31	83	28	68	58
	67.7												
greenstone(1)	67.7	15	3.86	3.95	317	<10	5530	18.02	28	54	5	241	52
	68.9												
siliceous mudstone(3)	68.90	30	0.775	0.23	76	62	1107	3.52	22	83	77	73	47
	78.69	32	1.312	0.25	86	114	2000	3.86	24	119	100	125	66
greenstone(10)	78.69	19	5.15	3.20	325	<10	2943	15.29	30	14	39	172	55
	90.55	34	6.78	3.75	385	<10	3810	18.54	40	29	83	228	160

Table 2. Summary chemistry of borehole 2

lithology	depth	B	CaO	TiO ₂	V	Cr	Mn	Fe ₂ O ₃	Co	Ni	Cu	Zn	As
	m.	ppm	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
dark slate(2)	90.55	26	1.62	0.26	86	30	1435	4.91	27	83	91	53	28
	94.05	33	2.24	0.32	90	32	1990	5.19	29	125	119	66	31
greenstone(3)	94.05	19	5.36	4.33	216	<10	4387	19.83	39	21	31	250	37
	97.75	21	5.66	4.41	259	<10	4620	20.81	41	29	42	299	67
slate(4)	98.05	30	1.20	0.27	87	40	1820	3.96	33	123	105	102	70
	105.25	41	1.65	0.28	120	39	3530	4.91	39	203	142	194	107
greenstone(5)	105.4	<10	4.74	2.13	283	444	2010	16.16	57	200	50	197	26
	124.1	13	6.94	2.55	342	565	2620	17.88	69	239	54	138	37
dark slate(3)	124.1	56	0.77	0.32	78	19	433	6.10	28	173	128	153	38
	129.8	71	1.24	0.42	88	27	580	7.16	42	233	183	207	41
greenstone(2)	129.80	<10	0.80	2.91	302	270	1590	17.89	43	153	65	166	3
	130.85	<10	1.13	2.96	328	276	1710	18.20	46	162	72	167	5
dark slate(1)	130.85	14	0.21	0.48	86	16	400	7.80	37	221	163	191	11
	132.25												
mafic lava(4)	132.6	<10	3.12	1.98	150	389	718	17.93	52	211	76	117	17
	140.6	<10	3.46	2.13	188	422	910	19.16	73	240	82	137	41
marginal lava(1)	141.40	<10	0.72	2.26	152	395	1690	22.40	60	245	88	503	2
	142.05												
mafic lava(1)	142.65	<10	1.92	1.98	148	362	2040	16.09	51	205	69	386	7
	143.65												
mafic tuff(1)	145.60	<10	2.98	2.38	184	210	650	14.93	56	137	63	127	3
	146.55												
mafic lava(4)	146.85	<10	2.60	1.86	164	358	673	17.72	53	183	79	103	2
	158.40	<10	3.21	1.96	172	415	840	19.58	57	187	109	107	4
mafic tuff(1)	158.6	<10	3.07	2.26	200	211	600	12.46	51	153	57	110	9
	158.9												

Table 2. Summary chemistry of borehole 2

lithology	depth	B	CaO	TiO ₂	V	Cr	Mn	Fe ₂ O ₃	Co	Ni	Cu	Zn	As
	m.	ppm	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
mafic	158.95	<10	3.11	1.88	136	337	960	16.75	52	171	65	121	1
lava(4)	173.60	4.86	1.97	149	374	1460	17.53	67	179	67	133	3	
cherty	174.20	<10	3.27	1.61	127	276	1480	18.71	43	168	50	90	1
lava(1)	175.75												
mafic	176.55	<10	5.06	2.55	164	148	2345	15.52	46	132	39	141	6
lava(2)	181.65	<10	5.23	2.56	166	160	2570	15.61	49	140	39	142	8
cherty	183.35	<10	7.08	1.48	109	294	2920	16.30	48	167	50	117	11
lava(1)	183.90												
slate(1)	183.9	23	0.76	0.36	74	26	580	5.84	30	157	136	139	38
	185.7												
slate(2)	185.70	51	0.65	0.46	58	16	1435	6.71	31	144	103	247	2
	188.37	51	0.86	0.55	60	21	1830	6.91	31	164	111	331	3

Table 2. Summary chemistry of borehole 2 (continued)

lithology	depth	Rb	Sr	Y	Zr	Nb	Mo	Sb	Ba	Ce	Pb	Th	U
	m.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
grey & buff	3.36	223	63	36	242	24	1	5	479	66	29	15	4
shale(4)	16.12	230	90	68	425	38	1	12	506	85	51	21	6
black	16.12	250	96	26	153	18	8	11	436	51	51	12	5
shale(6)	31.40	269	118	29	160	19	13	15	456	59	58	15	7
silty	32.40	177	51	22	164	19	3	8	294	44	21	10	2
shale(1)	32.15												
brecciated	32.45	100	11	18	95	14	2	9	97	40	53	3	3
chert(1)	37.60												
chert(3)	37.60	56	11	18	104	17	1	4	107	34	39	5	2
	42.60	77	12	25	149	25	2	6	136	42	55	5	2
tuff(1)	42.60	123	22	31	184	19	2	8	321	31	57	4	1
	43.10												
chert(3)	43.10	63	16	15	63	7	3	5	115	27	62	4	1
	51.14	93	26	18	90	14	7	9	177	31	93	8	2
greenstone(5)	51.24	46	95	27	158	24	2	5	136	39	19	2	1
	58.25	89	171	34	204	34	4	9	301	53	22	3	2
brecciated	58.25	104	11	12	81	9	1	10	164	32	22	5	1
chert(1)	61.00												
calcareous	61.0	6	113	15	27	1	1	1	32	1	13	<1	2
chert(1)	61.6												
brecciated	61.6	96	81	21	106	9	1	7	208	29	11	9	2
chert(1)	67.7												
greenstone(1)	67.7	61	142	33	193	35	2	8	69	33	15	2	<1
	68.9												
siliceous	68.90	51	39	13	61	6	1	9	150	31	26	5	3
mudstone(3)	78.69	55	60	16	63	8	2	11	166	36	43	6	3
greenstone(10)	78.69	68	182	28	210	36	3	12	234	41	21	3	1
	90.55	92	251	35	270	44	5	16	410	55	95	5	2

Table 2. Summary chemistry of borehole 2 (continued)

lithology	depth m.	Rb ppm	Sr ppm	Y ppm	Zr ppm	Nb ppm	Mo ppm	Sb ppm	Ba ppm	Ce ppm	Pb ppm	Th ppm	U ppm
dark slate(2)	90.55 94.05	63 84	55 79	14 18	60 71	6 9	3 4	9 9	140 173	34 40	19 20	6 6	2 2
greenstone(3)	94.05 97.75	74 80	129 138	50 51	319 324	52 54	3 5	11 15	115 96	74 78	7 8	3 4	2 3
slate(4)	98.05 105.25	56 69	48 60	16 20	56 64	5 5	5 11	11 19	199 313	32 48	31 44	4 6	2 5
greenstone(5)	105.4 124.1	11 29	206 354	20 24	120 136	20 24	3 3	5 7	117 279	23 31	5 8	2 4	1 2
dark slate(3)	124.1 129.8	76 98	19 29	36 50	166 216	30 44	12 25	8 11	357 442	48 71	39 40	13 23	5 10
greenstone(2)	129.80 130.85	7 8	79 112	22 22	152 154	26 26	4 4	6 8	53 58	29 31	21 21	3 3	1 1
dark slate(1)	130.85 132.25	8 50	51 426	56 56	56 56	56 56	2 2	5 5	24 95	95 37	37 9	9 9	3 3
mafic lava(4)	132.6 140.6	5 9	206 285	24 26	148 162	19 21	2 4	3 10	48 95	26 29	9 28	1 3	1 2
marginal lava(1)	141.40 142.05	52 18	18 17	17 164	164 22	22 22	<1 3	3 16	16 23	23 68	68 <1	<1 <1	<1 <1
mafic lava(1)	142.65 143.65	17 74	74 27	27 145	145 20	20 20	2 2	4 68	68 15	15 84	84 <1	<1 <1	<1 <1
mafic tuff(1)	145.60 146.55	20 305	305 21	21 139	139 22	22 22	1 1	3 113	113 28	28 5	5 2	2 2	1 1
mafic lava(4)	146.85 158.40	37 44	259 357	24 27	148 156	19 20	2 3	4 9	69 97	27 39	1 3	2 3	1 2
mafic tuff(1)	158.6 158.9	23 392	392 17	17 131	131 22	22 22	1 1	1 83	83 22	22 3	3 1	1 1	<1 <1

Table 2. Summary chemistry of borehole 2 (continued)

lithology	depth	Rb	Sr	Y	Zr	Nb	Mo	Sb	Ba	Ce	Pb	Th	U
	m.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
mafic	158.95	30	213	25	148	20	2	3	81	19	3	1	1
lava(4)	173.60	34	247	27	157	21	4	8	95	21	8	2	2
cherty	174.20	16	124	30	130	17	4	6	36	24	3	1	2
lava(1)	175.75												
mafic	176.55	3	272	37	250	40	4	5	142	53	1	3	1
lava(2)	181.65	4	326	38	250	42	4	7	215	59	2	3	1
cherty	183.35	1	163	26	133	20	5	<1	40	32	6	1	1
lava(1)	183.90												
slate(1)	183.9	23	50	24	176	23	2	3	95	32	27	5	1
	185.7												
slate(2)	185.70	74	30	44	408	58	1	8	336	85	114	9	4
	188.37	78	39	57	536	73	1	9	342	102	192	11	4

CHILLATON BOREHOLE 1

Sample number	Top	Bottom	B	CaO	TiO ₂	V	Cr
DCD1	3.58	3.71	167	0.06	1.02	183	115
DCD2	3.71	4.57	153	0.07	0.97	144	109
DCD3	4.57	5.18	128	0.05	0.95	153	110
DCD4	5.18	5.94	136	0.07	0.91	127	88
DCD5	5.94	7.01	137	0.03	0.95	167	94
DCD6	7.01	8.23	131	0.03	0.94	331	83
DCD7	8.23	9.22	140	0.03	0.91	233	93
DCD8	9.22	10.13	139	0.03	0.90	231	66
DCD9	10.13	11.20	143	0.04	0.92	240	82
DCD10	11.28	12.34	144	0.06	0.93	331	80
DCD11	12.34	14.33	125	0.05	0.89	293	72
DCD12	14.33	16.31	124	0.06	0.87	243	80
DCD13	16.31	17.37	151	0.05	0.92	229	93
DCD14	17.37	18.59	133	0.05	0.87	328	84
DCD15	18.59	20.12	135	0.03	0.82	242	80
DCD16	21.64	22.40	64	0.09	0.20	52	26
DCD17	22.40	23.47	46	0.03	0.20	42	28
DCD18	23.90	24.35	34	0.03	0.21	71	24
DCD19	24.40	24.97	38	0.02	0.35	59	26
DCD20	25.48	26.05	58	0.03	0.67	72	33
DCD21	26.55	27.40	25	0.02	0.30	36	30
DCD22	27.50	27.90	22	0.02	0.18	24	23
DCD23	27.90	28.48	44	0.05	0.43	41	28
DCD24	28.53	28.95	39	0.07	0.51	53	31
DCD25	28.95	29.70	81	0.35	2.55	247	300
DCD26	29.70	30.30	28	0.09	0.56	65	48
DCD27	30.30	31.00	44	0.03	0.27	58	31
DCD28	35.15	37.85	26	7.73	0.41	52	40
DCD29	41.78	42.90	50	0.04	0.21	52	25
DCD30	44.00	45.00	54	0.06	0.25	46	29
DCD31	46.00	46.60	30	0.15	0.16	36	35
DCD32	46.60	46.80	38	0.32	0.31	111	9
DCD33	47.00	47.60	43	6.02	2.84	296	13
DCD34	47.80	49.00	25	5.59	2.44	210	2
DCD35	49.13	50.60	52	6.52	2.43	227	0
DCD36	50.60	52.30	8	5.05	2.23	179	0

Depths in metres, CaO and TiO₂ in %, other elements in ppm.

CHILLATON BOREHOLE 1

Sample number	Mn	Fe2O3	Co	Ni	Cu	Zn	As	Rb
DCD1	90	3.35	1	19	11	35		290
DCD2	130	5.01	4	43	29	48		264
DCD3	220	7.85	4	48	31	83		236
DCD4	230	8.22	9	50	50	88		224
DCD5	200	7.21	9	49	36	80		253
DCD6	190	7.57	14	53	42	89		257
DCD7	200	7.81	15	64	54	98		253
DCD8	200	8.28	17	63	38	106		247
DCD9	190	10.08	17	73	35	177		251
DCD10	170	7.55	17	63	35	112		267
DCD11	180	9.69	19	77	43	103		250
DCD12	180	9.81	16	67	46	94		249
DCD13	150	7.39	15	64	42	97		273
DCD14	130	7.16	10	64	40	90		248
DCD15	90	6.48	1	38	28	80		247
DCD16	70	2.40	5	23	78	29	11	91
DCD17	90	3.64	3	47	57	30	6	68
DCD18	80	2.81	8	45	55	36	3	65
DCD19	120	7.17	8	95	47	81	2	64
DCD20	200	8.69	22	151	70	104	2	122
DCD21	300	10.40	11	66	54	97	4	27
DCD22	470	4.40	6	32	20	42	0	29
DCD23	3200	11.95	10	65	24	133	4	64
DCD24	280	12.62	8	81	46	131	20	72
DCD25	350	18.20	58	132	108	214	14	147
DCD26	300	11.26	19	90	57	137	3	60
DCD27	130	3.13	7	36	45	47	2	78
DCD28	900	10.33	22	57	30	65	0	5
DCD29	170	3.03	7	35	29	53	5	56
DCD30	410	3.58	18	53	26	125	14	65
DCD31	760	3.10	20	45	16	51	23	24
DCD32	1520	10.96	50	154	183	164	60	32
DCD33	3890	16.23	34	38	17	162	43	65
DCD34	4450	16.51	28	42	146	209	40	55
DCD35	10170	19.09	45	64	7	246	115	51
DCD36	5290	15.62	29	20	10	240	70	22

Fe as Fe2O3 in %, other elements in ppm.

CHILLATON BOREHOLE 1

Sample number	Sr	Y	Zr	Mo	Sn	Sb	Ba	Ce
DCD1	140	31	209	1	4	3	504	50
DCD2	125	28	195	3	4	5	430	56
DCD3	114	34	188	1	3	7	417	61
DCD4	107	31	182	1	3	8	742	49
DCD5	120	33	189	0	3	4	649	59
DCD6	115	32	188	34	6	10	425	59
DCD7	113	32	168	5	4	11	448	51
DCD8	110	32	160	2	4	6	397	57
DCD9	108	32	155	4	7	14	425	45
DCD10	113	27	158	6	5	9	484	54
DCD11	99	27	153	18	2	12	447	58
DCD12	92	26	162	9	4	9	460	56
DCD13	90	27	164	4	5	5	439	61
DCD14	76	26	146	6	6	6	398	40
DCD15	71	22	147	8	1	0	357	49
DCD16	22	14	72	0	6	9	90	36
DCD17	13	13	67	1	5	10	96	32
DCD18	13	18	67	1	4	2	85	46
DCD19	11	17	105	0	6	1	106	48
DCD20	13	27	198	0	4	1	130	72
DCD21	11	17	102	0	4	4	48	44
DCD22	10	11	67	0	5	4	50	36
DCD23	34	23	143	0	3	5	130	55
DCD24	21	40	265	0	5	8	141	116
DCD25	27	28	169	3	1	1	209	49
DCD26	12	28	152	0	4	3	114	67
DCD27	10	17	82	0	0	3	140	53
DCD28	261	6	24	0	1	1	77	23
DCD29	10	12	48	0	0	2	114	41
DCD30	12	13	61	0	4	5	134	52
DCD31	18	10	36	1	2	5	221	18
DCD32	16	23	90	68	0	4	283	64
DCD33	206	24	133	0	4	8	218	47
DCD34	131	20	103	0	0	3	161	30
DCD35	73	26	105	2	4	8	132	46
DCD36	151	27	136	0	2	5	52	39

All elements in ppm.

CHILLATON BOREHOLE 1

Sample number	Pb	Th	U
DCD1	29	15	4
DCD2	35	14	3
DCD3	38	14	5
DCD4	29	12	3
DCD5	32	14	4
DCD6	27	14	6
DCD7	30	14	3
DCD8	40	14	3
DCD9	40	11	5
DCD10	46	14	5
DCD11	50	13	4
DCD12	41	10	7
DCD13	41	12	5
DCD14	48	12	5
DCD15	40	10	7
DCD16	39	4	3
DCD17	34	2	0
DCD18	23	5	1
DCD19	10	5	2
DCD20	7	10	1
DCD21	10	3	2
DCD22	6	2	0
DCD23	3	7	1
DCD24	14	10	2
DCD25	18	3	2
DCD26	11	5	0
DCD27	25	3	1
DCD28	5	1	0
DCD29	25	3	0
DCD30	37	3	0
DCD31	6	4	2
DCD32	19	3	4
DCD33	8	2	1
DCD34	15	1	1
DCD35	23	2	0
DCD36	14	1	1

All elements in ppm.

CHILLATON BOREHOLE 2

Sample number	Top	Bottom	B	CaO	TiO ₂	V	Cr
DCD37	3.36	5.49	149	0.03	0.88	67	45
DCD38	5.49	9.80	167	0.04	0.92	107	63
DCD39	9.80	13.64	130	0.02	0.94	118	59
DCD40	13.72	16.12	142	0.06	0.98	138	55
DCD41	16.12	18.27	228	0.04	0.97	171	73
DCD42	18.27	21.40	176	0.06	0.90	178	63
DCD43	21.40	25.20	158	0.06	0.88	204	51
DCD44	25.20	28.90	208	0.06	0.90	206	66
DCD45	28.90	30.20	207	0.06	0.90	347	87
DCD46	30.20	31.40	139	0.04	0.83	243	59
DCD47	31.40	32.15	102	0.03	0.65	103	45
DCD48	32.45	37.60	113	0.03	0.26	34	22
DCD49	37.60	40.30	60	0.02	0.26	47	26
DCD50	40.80	41.64	20	0.03	0.25	18	16
DCD51	41.64	42.60	30	0.10	0.35	23	25
DCD52	42.60	43.10	47	0.46	2.71	239	268
DCD53	43.10	46.50	55	0.04	0.35	46	34
DCD54	46.50	49.20	16	0.05	0.23	45	18
DCD55	49.20	51.14	51	0.07	0.17	57	27
DCD56	51.24	52.30	85	3.13	3.79	485	18
DCD57	52.50	53.15	21	5.07	3.55	284	13
DCD58	53.35	54.85	29	5.96	3.85	367	0
DCD59	55.00	57.00	40	2.67	4.61	324	0
DCD60	57.00	58.25	11	2.04	4.62	199	0
DCD61	58.25	61.00	83	0.04	0.35	87	55
DCD62	61.00	61.60	6	7.71	0.03	15	15
DCD63	61.60	67.70	49	1.32	0.33	81	44
DCD64	67.70	68.90	14	3.86	3.95	317	0
DCD65	68.90	71.00	31	0.21	0.22	70	43
DCD66	71.00	74.40	26	1.32	0.21	86	114
DCD67	74.40	78.69	32	0.80	0.25	71	30
DCD68	78.69	80.50	14	4.27	3.76	304	0
DCD69	80.50	82.50	22	6.38	2.82	241	1
DCD70	82.50	82.95	21	5.86	3.02	322	0
DCD71	82.95	85.50	10	5.79	3.08	290	3
DCD72	85.50	86.30	15	3.42	3.51	380	0
DCD73	86.30	87.00	33	4.97	3.28	385	0
DCD74	87.00	88.15	18	4.45	3.66	349	0
DCD75	88.15	88.70	29	4.09	2.90	334	0
DCD76	88.70	89.80	17	6.77	2.46	295	7
DCD77	89.80	90.55	7	5.42	3.51	345	0
DCD78	90.55	92.70	32	0.99	0.32	90	32
DCD79	92.70	94.05	17	2.23	0.19	81	27
DCD80	94.05	94.70	20	5.66	4.36	259	0
DCD81	94.70	96.20	17	4.97	4.41	199	0
DCD82	96.20	97.75	17	5.45	4.22	189	0
DCD83	98.05	98.50	15	1.65	0.26	49	32
DCD84	98.50	100.50	32	1.41	0.28	120	48
DCD85	100.50	102.80	41	0.68	0.28	81	38
DCD86	102.80	105.25	30	1.05	0.24	96	40

Depth in metres, Cao and TiO₂ in %, other elements in ppm.

CHILLATON BOREHOLE 2

Sample number	Top	Bottom	B	CaO	TiO2	V	Cr
DCD87	105.40	108.60	0	3.94	2.31	296	530
DCD88	108.60	115.29	0	6.81	1.88	246	497
DCD89	115.29	121.70	0	5.50	2.10	321	565
DCD90	121.70	123.30	0	6.93	1.83	210	289
DCD91	123.30	124.10	13	0.50	2.55	342	340
DCD92	124.10	125.05	71	0.88	0.24	68	27
DCD93	125.05	127.50	46	1.24	0.31	88	16
DCD94	127.50	129.80	51	0.19	0.42	77	14
DCD95	129.80	130.35	0	0.46	2.85	275	264
DCD96	130.35	130.85	0	1.13	2.96	328	276
DCD97	130.85	132.25	14	0.21	0.48	86	16
DCD98	132.60	133.85	1	3.45	1.91	161	409
DCD99	135.80	136.90	0	3.30	1.83	107	311
DCD100	137.65	138.80	0	3.13	2.06	188	422
DCD101	139.60	140.60	0	2.57	2.13	142	412
DCD102	141.40	142.05	0	0.72	2.26	152	395
DCD103	142.65	143.65	0	1.91	1.98	148	362
DCD104	145.60	146.55	3	2.98	2.38	184	210
DCD105	146.85	147.85	0	2.01	1.81	163	378
DCD106	150.35	151.30	0	3.20	1.82	154	284
DCD107	152.90	153.75	0	2.68	1.96	167	415
DCD108	157.05	158.40	0	2.50	1.86	172	353
DCD109	158.60	158.90	0	3.07	2.26	200	211
DCD110	158.95	160.10	0	2.51	1.89	149	374
DCD111	163.00	164.05	2	4.86	1.77	141	327
DCD112	168.05	169.10	2	2.72	1.97	136	364
DCD113	172.60	173.60	1	2.35	1.90	117	281
DCD114	174.20	175.75	0	3.27	1.61	127	276
DCD115	176.55	177.55	0	4.87	2.56	166	160
DCD116	180.45	181.65	1	5.22	2.53	161	135
DCD117	183.35	183.90	3	7.08	1.48	109	294
DCD118	183.90	185.70	23	0.76	0.36	74	26
DCD119	185.70	187.40	50	0.43	0.55	60	21
DCD120	187.40	188.37	51	0.86	0.36	56	10

Depth in metres, Cao and TiO2 in %, other elements in ppm.

CHILLATON BOREHOLE 2

Sample number	MN	Fe2O3	CO	Ni	Cu	ZN	As	Rb
DCD36	5290	15.62	29	20	10	240	70	22
DCD37	980	8.99	20	53	31	159	18	206
DCD38	330	9.77	10	63	19	115	5	227
DCD39	370	10.78	12	74	33	130	4	230
DCD40	510	10.88	13	80	33	148	4	229
DCD41	360	7.97	21	70	49	171	42	269
DCD42	320	8.27	17	63	37	362	31	253
DCD43	190	8.76	16	67	41	130	21	245
DCD44	170	8.29	18	64	34	113	19	249
DCD45	130	7.70	9	68	41	97	23	253
DCD46	100	6.68	6	50	36	84	18	231
DCD47	70	6.08	4	50	36	70	10	177
DCD48	50	2.82	14	43	61	61	13	100
DCD49	60	2.76	7	49	44	42	4	77
DCD50	90	3.80	6	58	32	58	4	69
DCD51	360	12.59	7	58	32	117	4	22
DCD52	7440	22.78	59	151	83	424	18	123
DCD53	770	6.08	14	66	73	169	5	93
DCD54	4940	4.77	99	93	72	299	24	67
DCD55	1170	5.97	27	53	23	81	43	30
DCD56	5160	20.16	45	51	30	313	128	89
DCD57	5740	22.54	30	47	11	237	47	31
DCD58	4400	21.75	54	34	14	220	64	44
DCD59	4800	23.69	57	29	22	283	63	44
DCD60	2870	22.98	44	29	10	295	36	20
DCD61	680	4.34	22	66	5	72	21	104
DCD62	14360	6.72	6	18	41	187	5	6
DCD63	1670	4.76	31	83	28	68	58	96
DCD64	5530	18.04	28	54	5	241	52	61
DCD65	470	3.09	18	61	73	49	34	50
DCD66	2000	3.62	23	68	59	46	42	47
DCD67	850	3.86	24	119	00	125	66	55
DCD68	3360	17.25	28	22	36	217	48	60
DCD69	3220	13.35	22	14	31	96	59	85
DCD70	3080	12.58	29	9	83	141	47	74
DCD71	2670	13.26	30	11	47	159	160	49
DCD72	2070	17.06	27	12	33	219	40	67
DCD73	2760	15.72	36	12	32	176	40	92
DCD74	2630	17.20	40	13	58	191	52	67
DCD75	2370	14.75	27	9	35	180	45	83
DCD76	3460	13.29	23	8	22	116	28	61
DCD77	3810	18.56	37	29	8	228	31	39
DCD78	880	4.62	29	125	19	66	31	84
DCD79	1990	5.19	24	40	62	39	25	41
DCD80	4620	19.76	41	29	34	156	32	80
DCD81	4130	20.83	39	16	18	299	67	64
DCD82	4410	18.96	36	18	42	296	13	77
DCD83	1920	3.59	28	26	41	30	24	32
DCD84	3530	4.92	39	181	38	140	107	69
DCD85	1140	3.16	27	81	97	42	62	68
DCD86	690	4.28	39	203	42	194	86	56

Total Fe as Fe2O3 in %, other elements in ppm.

CHILLATON BOREHOLE 2

Sample number	MN	Fe2O3	CO	Ni	Cu	ZN	As	Rb
DCD87	2620	17.78	58	239	54	112	30	18
DCD88	1920	14.84	57	224	53	97	15	0
DCD89	1810	15.72	69	193	50	102	25	1
DCD90	2060	14.64	48	162	45	88	23	7
DCD91	1640	17.90	51	180	49	138	37	29
DCD92	350	5.00	10	60	63	96	41	98
DCD93	580	6.15	32	233	39	207	36	60
DCD94	370	7.16	42	226	83	156	37	69
DCD95	1470	17.58	39	144	57	165	5	8
DCD96	1710	18.21	46	162	72	167	1	6
DCD97	400	7.81	37	221	63	191	11	8
DCD98	910	18.27	43	205	76	107	12	1
DCD99	720	19.17	50	191	69	104	6	3
DCD100	570	15.15	73	240	82	119	8	6
DCD101	670	15.84	43	208	78	137	41	9
DCD102	1690	22.41	60	245	88	503	2	52
DCD103	2040	16.11	51	205	69	386	7	17
DCD104	650	14.94	56	137	63	127	3	20
DCD105	690	18.93	52	183	73	104	1	44
DCD106	620	16.60	52	175	65	107	2	35
DCD107	540	15.83	50	187	09	102	4	39
DCD108	840	19.59	57	186	69	99	0	30
DCD109	600	12.47	51	153	57	110	9	23
DCD110	760	17.53	54	177	66	106	0	34
DCD111	1460	15.69	48	179	67	113	0	24
DCD112	720	16.28	67	173	67	132	3	31
DCD113	900	17.54	39	154	59	133	1	31
DCD114	1480	18.73	43	168	50	90	1	16
DCD115	2120	15.44	49	140	39	142	8	4
DCD116	2570	15.62	43	123	39	139	3	2
DCD117	2920	16.32	48	167	49	117	11	1
DCD118	580	5.84	30	157	36	139	38	23
DCD119	1040	6.92	31	164	11	163	45	70
DCD120	1830	6.51	30	123	94	331	28	78

Total Fe as Fe2O3 in %, other elements in ppm.

CHILLATON BOREHOLE 2

Sample number	Sr	Y	Zr	Mo	Sn	Sb	Ba	La
DCD36	151	27	136	0	2	5	52	
DCD37	36	68	425	1	10	4	446	53
DCD38	56	25	185	0	3	4	504	28
DCD39	71	25	180	1	3	12	506	27
DCD40	90	25	176	0	0	1	460	27
DCD41	118	27	159	13	0	7	445	30
DCD42	114	29	159	8	6	15	424	33
DCD43	104	25	150	7	2	13	456	24
DCD44	90	27	160	5	5	14	447	28
DCD45	80	24	152	9	4	8	440	25
DCD46	70	21	140	6	3	9	402	22
DCD47	51	22	164	3	5	8	294	31
DCD48	11	18	95	2	5	9	97	20
DCD49	12	14	85	2	3	6	127	18
DCD50	12	16	78	0	1	2	136	17
DCD51	10	25	149	0	0	5	57	23
DCD52	22	31	184	2	4	8	321	13
DCD53	12	18	90	0	2	4	177	18
DCD54	26	13	54	2	2	9	104	13
DCD55	9	13	44	7	0	1	66	8
DCD56	57	24	139	2	4	5	301	8
DCD57	139	21	124	2	2	6	82	6
DCD58	171	25	139	4	2	9	135	16
DCD59	53	32	185	2	3	5	122	14
DCD60	54	34	204	2	3	0	42	21
DCD61	11	12	81	1	5	10	164	20
DCD62	113	15	27	1	1	1	32	0
DCD63	81	21	106	1	1	7	208	22
DCD64	142	33	193	2	4	8	69	22
DCD65	17	11	59	0	1	5	132	15
DCD66	60	16	63	0	8	10	151	17
DCD67	41	12	61	2	5	11	166	19
DCD68	136	35	270	4	1	6	195	30
DCD69	199	25	208	3	4	12	314	20
DCD70	169	26	213	3	2	14	238	22
DCD71	247	27	197	3	5	15	147	20
DCD72	131	28	214	0	6	13	215	16
DCD73	205	27	204	3	4	16	410	18
DCD74	188	31	231	5	4	7	271	16
DCD75	145	28	186	3	3	10	291	16
DCD76	251	25	161	3	4	14	194	13
DCD77	150	31	217	2	5	9	65	20
DCD78	31	18	71	4	3	8	173	18
DCD79	79	10	48	1	5	9	107	12
DCD80	138	51	322	5	6	15	165	38
DCD81	113	49	312	3	5	11	85	36
DCD82	138	49	324	2	1	8	96	44
DCD83	60	8	42	5	2	8	71	2
DCD84	57	16	60	11	4	19	191	21
DCD85	36	20	64	1	0	4	222	19
DCD86	37	20	57	4	3	11	313	17

All elements in ppm.

CHILLATON BOREHOLE 2

Sample number	Sr	Y	Zr	Mo	Sn	Sb	Ba	La
DCD87	88	19	128	3	5	7	224	6
DCD88	354	19	107	2	0	4	11	9
DCD89	302	19	120	2	2	6	29	8
DCD90	269	21	109	3	0	1	41	16
DCD91	18	24	136	3	0	5	279	17
DCD92	29	50	216	25	7	11	442	53
DCD93	19	28	145	9	6	11	287	36
DCD94	9	29	183	3	4	1	342	42
DCD95	45	22	154	3	3	4	58	14
DCD96	112	22	150	4	4	8	47	12
DCD97	50	51	426	2	1	5	24	59
DCD98	139	21	138	4	1	1	16	11
DCD99	163	24	137	2	0	0	22	16
DCD100	285	26	156	1	3	2	95	16
DCD101	235	26	162	1	0	10	59	12
DCD102	18	17	164	0	0	3	16	16
DCD103	74	27	145	2	0	4	68	14
DCD104	305	21	139	1	2	3	113	22
DCD105	181	23	145	2	7	7	46	17
DCD106	357	23	148	2	0	0	74	17
DCD107	293	27	156	3	9	4	97	19
DCD108	206	24	143	1	5	5	57	15
DCD109	392	17	131	1	1	1	83	14
DCD110	247	27	147	2	4	8	87	20
DCD111	231	27	141	0	1	2	67	15
DCD112	219	21	157	4	0	0	93	20
DCD113	155	23	148	0	0	0	95	17
DCD114	124	30	130	4	3	6	36	14
DCD115	326	38	250	4	2	7	215	27
DCD116	218	36	249	4	0	2	68	24
DCD117	163	26	133	5	0	0	40	16
DCD118	50	24	176	2	4	3	95	29
DCD119	39	57	536	1	3	6	342	65
DCD120	20	30	280	1	3	9	330	40

All elements in ppm.

CHILLATON BOREHOLE 2

Sample number	Ce	W	Pb	Th	U
DCD37	85	6	51	21	3
DCD38	56	5	26	13	6
DCD39	60	4	24	13	4
DCD40	64	3	14	11	2
DCD41	59	2	58	15	5
DCD42	58	2	57	13	4
DCD43	51	2	47	11	1
DCD44	41	3	47	12	4
DCD45	50	2	51	10	6
DCD46	46	3	43	12	7
DCD47	44	1	21	10	2
DCD48	40	2	53	3	3
DCD49	27	0	55	4	1
DCD50	34	2	40	5	2
DCD51	42	4	23	5	2
DCD52	31	1	57	4	1
DCD53	31	0	93	8	2
DCD54	28	1	74	2	1
DCD55	22	3	20	3	1
DCD56	34	1	18	2	1
DCD57	18	1	9	0	0
DCD58	38	0	11	2	0
DCD59	51	2	16	1	0
DCD60	53	0	22	3	2
DCD61	32	3	22	5	1
DCD62	1	2	13	0	2
DCD63	29	5	11	9	2
DCD64	33	7	15	2	0
DCD65	26	2	19	6	2
DCD66	31	2	17	3	3
DCD67	36	4	43	5	3
DCD68	54	11	2	3	2
DCD69	40	7	11	3	0
DCD70	50	8	10	3	1
DCD71	34	14	95	3	1
DCD72	55	10	10	2	0
DCD73	39	12	7	1	0
DCD74	30	14	14	2	0
DCD75	37	2	14	1	1
DCD76	32	3	25	3	1
DCD77	34	4	18	5	2
DCD78	40	2	20	6	2
DCD79	27	3	11	2	2
DCD80	75	4	5	3	3
DCD81	70	5	8	4	3
DCD82	78	7	7	2	1
DCD83	5	1	21	2	0
DCD84	48	3	35	4	3
DCD85	28	2	23	6	1
DCD86	46	5	44	3	5

All elements in ppm.

CHILLATON BOREHOLE 2

Sample number	Ce	W	Pb	Th	U
DCD87	31	5	1	2	2
DCD88	15	2	6	4	0
DCD89	24	0	8	2	1
DCD90	27	3	5	2	1
DCD91	17	1	4	2	2
DCD92	70	3	39	23	10
DCD93	58	0	40	9	3
DCD94	71	0	37	7	3
DCD95	31	0	21	3	1
DCD96	26	2	21	3	1
DCD97	95	5	37	9	3
DCD98	17	2	4	1	0
DCD99	29	0	0	3	2
DCD100	28	2	4	1	2
DCD101	29	0	28	0	0
DCD102	23	0	68	0	0
DCD103	15	1	84	0	0
DCD104	28	3	5	2	1
DCD105	39	2	0	2	0
DCD106	27	0	2	0	2
DCD107	17	0	0	1	1
DCD108	25	4	3	3	0
DCD109	22	1	3	1	0
DCD110	17	0	0	1	0
DCD111	21	0	3	2	0
DCD112	18	1	1	2	0
DCD113	18	1	8	0	2
DCD114	24	4	3	1	2
DCD115	59	0	2	3	1
DCD116	47	0	0	3	0
DCD117	32	2	6	1	1
DCD118	32	1	27	5	1
DCD119	102	3	36	11	4
DCD120	68	0	192	7	4

All elements in ppm.

CHILLATON RECONNAISSANCE SOIL SAMPLES

Sample number	B	CaO	TiO ₂	V	Mn	Fe ₂ O ₃	Co
DCS1	63	0.31	1.89	262	4100	15.38	40
DCS2	63	0.28	1.76	234	4200	15.23	40
DCS3	85	0.41	1.87	242	3840	13.82	30
DCS4	63	0.40	1.59	206	3700	13.07	30
DCS5	71	0.59	1.81	263	3780	14.19	40
DCS6	68	0.40	1.80	216	4530	14.03	35
DCS7	75	0.60	1.93	330	5770	17.75	40
DCS8	75	0.23	1.73	334	5320	18.70	45
DCS9	68	0.36	2.69	295	5900	19.00	35
DCS10	63	0.60	1.98	233	3360	15.63	35
DCS11	79	0.77	2.56	224	4040	16.57	30
DCS12	75	0.43	2.26	193	3950	17.33	40
DCS13	58	0.48	2.09	211	3310	17.17	40
DCS14	65	0.40	2.02	263	3870	15.00	35
DCS15	95	0.12	1.45	163	750	6.77	15
DCS16	68	0.23	3.37	272	2170	16.37	35
DCS17	59	0.10	4.55	334	1910	18.84	45
DCS18	68	0.23	2.92	233	1760	12.16	20
DCS19	99	0.26	1.98	211	1490	10.08	25
DCS20	87	0.29	1.89	183	1250	10.47	25
DCS21	72	0.18	1.81	176	1050	9.47	20
DCS22	77	0.25	2.24	156	1410	11.53	25
DCS23	87	0.17	2.56	192	1700	12.56	35
DCS24	49	0.20	3.89	327	1820	17.83	45
DCS25	73	0.28	3.08	236	2130	16.76	40
DCS26	58	0.40	2.97	289	2020	17.03	40
DCS27	24	0.27	2.61	230	1600	12.51	45
DCS28	75	0.20	3.70	178	2000	19.44	30
DCS29	80	0.25	2.98	204	1510	13.23	35
DCS30	92	0.35	3.60	288	2480	15.35	40
DCS31	89	0.20	2.57	194	1350	12.39	30
DCS32	63	0.25	3.22	279	2740	14.93	45
DCS33	64	0.28	3.27	249	1430	13.99	30
DCS34	67	0.34	3.90	275	2250	16.05	35
DCS35	80	0.24	3.25	242	1620	14.18	35
DCS36	73	0.26	3.23	249	1530	13.68	30
DCS37	62	0.28	3.83	241	1630	15.42	40
DCS38	95	0.25	2.99	241	1480	13.40	35
DCS39	91	0.28	2.49	175	1150	12.30	30
DCS40	73	0.43	2.78	191	1630	12.85	30
DCS41	86	0.27	2.13	187	1170	11.20	30
DCS42	76	0.45	2.75	180	1760	13.25	35
DCS43	105	0.21	2.18	104	1300	11.49	30
DCS44	134	0.23	2.88	135	2240	14.56	50
DCS45	158	0.28	2.31	114	1700	12.23	40
DCS46	143	0.22	2.47	132	1520	12.95	35
DCS47	133	0.19	2.19	101	1430	11.50	35
DCS48	134	0.19	2.86	126	2250	14.34	65
DCS49	152	0.15	3.09	114	2530	15.57	55
DCS50	160	0.22	3.06	160	3210	14.71	60
DCS51	165	0.18	2.48	144	3730	14.71	55

CaO, TiO₂, total Fe as Fe₂O₃ in %, other elements in ppm.

CHILLATON RECONNAISSANCE SOIL SAMPLES

Sample number	B	CaO	TiO2	V	Mn	Fe2O3	Co
DCS52	151	0.19	2.14	103	2290	12.16	50
DCS53	154	0.26	2.13	132	2720	12.80	50
DCS54	151	0.31	1.32	102	1680	10.07	30
DCS55	124	0.28	1.16	495	2390	9.62	30
DCS56	132	0.28	1.32	146	1600	10.89	35
DCS57	203	0.33	1.62	132	1200	10.00	25
DCS58	129	0.45	1.52	139	1290	9.80	25
DCS59	137	0.34	1.47	143	510	11.96	25
DCS60	114	0.44	1.72	141	1920	11.13	30
DCS61	77	0.68	1.95	163	1400	14.36	35
DCS62	72	0.69	1.78	141	1940	12.89	35
DCS63	72	0.68	2.16	210	1340	16.39	40
DCS64	61	0.95	2.47	228	4790	20.29	90
DCS65	74	1.17	1.75	174	1790	12.30	35
DCS66	70	1.20	2.03	161	1740	13.50	35
DCS67	62	1.01	1.92	175	1760	13.81	35
DCS68	73	1.18	2.23	175	2160	15.26	40
DCS69	64	0.89	1.87	157	1760	14.54	40
DCS71	43	0.99	2.70	186	2530	16.24	50
DCS72	35	1.47	2.12	219	2030	15.03	50
DCS73	59	0.24	0.63	84	1410	6.24	20
DCS74	59	0.37	1.38	104	1780	10.51	25
DCS75	55	0.54	1.61	162	1820	13.02	35
DCS76	60	0.59	1.61	141	2870	13.88	45
DCS77	61	0.72	1.75	111	1940	12.73	40
DCS78	58	0.62	1.58	132	1670	13.78	40
DCS79	64	0.46	1.94	117	2390	11.87	35
DCS80	75	0.40	2.18	127	1430	11.90	30
DCS81	69	0.58	2.30	127	2310	12.24	30
DCS82	68	0.45	2.08	110	1490	11.20	25
DCS83	94	0.31	1.46	108	1010	10.36	25
DCS84	114	0.31	1.40	99	1020	9.78	25
DCS85	104	0.28	1.34	98	980	9.57	25
DCS86	95	0.20	1.31	99	930	10.14	25
DCS87	79	0.30	1.88	146	1140	17.11	45
DCS88	93	0.17	1.24	101	620	8.56	20
DCS89	110	0.20	1.20	96	410	6.14	10
DCS90	114	0.21	1.07	85	440	5.63	10
DCS91	85	0.20	0.88	92	820	7.66	20
DCS92	93	0.21	1.11	97	450	7.41	10
DCS93	102	0.22	0.81	71	440	6.59	15
DCS94	96	0.13	0.84	88	1000	7.00	20
DCS95	92	0.30	1.31	96	1660	10.05	30
DCS96	85	0.74	1.79	170	2670	14.80	45
DCS97	58	0.32	2.21	219	2470	16.53	40
DCS98	49	0.67	2.01	237	2280	17.27	40
DCS99	67	0.77	2.09	219	1780	15.88	35
DCS100	79	0.78	2.02	161	2830	15.85	45
DCS101	90	0.23	1.09	106	1000	8.04	20
DCS102	84	0.22	0.90	75	1490	7.58	25
DCS103	100	0.22	0.89	69	650	7.53	20

CaO, TiO2, total Fe as Fe2O3 in %, other elements in ppm.

CHILLATON RECONNAISSANCE SOIL SAMPLES

Sample number	B	CaO	TiO2	V	Mn	Fe2O3	Co
DCS104	78	0.19	0.95	101	1120	7.80	20
DCS105	81	0.26	1.50	117	3030	11.78	25
DCS106	76	0.18	0.71	85	6580	7.49	35
DCS107	84	0.19	0.86	88	1190	8.41	20
DCS108	72	0.19	0.87	98	920	8.42	20
DCS109	99	0.30	1.03	104	1140	9.41	25
DCS110	120	0.22	0.99	99	670	8.03	15
DCS111	181	0.13	0.83	165	370	6.70	10
DCS112	123	0.16	0.87	122	910	7.99	25
DCS113	205	0.18	1.12	149	820	8.68	15
DCS114	133	0.23	1.15	98	550	7.13	15
DCS115	136	0.33	1.19	94	540	8.45	10
DCS116	317	0.14	1.11	202	240	5.15	10
DCS117	247	0.21	1.19	112	450	7.41	10
DCS118	205	0.24	1.21	104	720	8.45	15
DCS119	220	0.26	1.02	179	520	8.29	15
DCS122	202	0.24	1.06	207	530	8.21	15
DCS123	164	0.21	1.07	208	580	7.75	15
DCS124	282	0.18	0.77	257	1030	6.65	20
DCS125	213	0.29	1.04	238	710	8.76	15
DCS126	247	0.20	0.93	209	470	6.50	10
DCS127	159	0.10	1.09	153	540	8.10	15
DCS128	217	0.35	1.12	160	750	7.84	15
DCS129	119	0.27	1.09	142	620	8.02	15
DCS130	131	0.24	1.00	116	550	6.86	10
DCS131	94	0.44	1.00	80	870	6.96	15
DCS132	88	0.22	0.93	71	430	6.80	10
DCS133	80	0.38	1.02	90	810	7.14	15
DCS134	104	0.29	1.12	97	830	6.84	15
DCS135	43	0.69	2.42	242	2760	16.02	50
DCS136	39	0.92	2.41	258	2160	18.38	40
DCS137	57	0.98	2.25	199	2820	16.56	45
DCS138	69	1.11	2.26	166	2450	15.07	45
DCS139	64	1.20	2.12	180	2580	14.34	40
DCS140	87	1.56	1.86	124	2120	14.14	50
DCS141	36	3.02	2.16	167	2290	17.73	70
DCS142	73	1.76	1.94	141	2500	14.95	50
DCS143	71	1.45	2.01	143	2440	15.42	55
DCS144	76	0.97	1.85	157	2150	13.49	40
DCS145	82	0.88	1.92	155	3120	15.62	40
DCS146	94	0.55	1.67	162	2940	15.37	40
DCS147	95	0.28	2.80	147	1710	13.31	35

CaO, TiO2, total Fe as Fe2O3 in %, other elements in ppm.

Chillaton reconnaissance soil samples

Sample number	Ni	Cu	Zn	As	Sn	Sb	Ba
DCS1	74	79	154	52	5	3	266
DCS2	65	76	141	46	6	4	284
DCS3	40	65	139	37	13	13	255
DCS4	44	62	118	31	0	0	298
DCS5	46	71	45	52	6	10	252
DCS6	47	78	133	61	6	3	242
DCS7	44	55	145	73	3	2	294
DCS8	42	73	157	42	4	8	300
DCS9	21	30	141	25	6	9	271
DCS10	22	25	133	20	4	8	309
DCS11	21	30	150	32	10	7	234
DCS12	23	24	137	31	3	5	228
DCS13	29	35	138	17	12	10	280
DCS14	37	41	169	31	2	4	249
DCS15	21	43	48	56	2	4	224
DCS16	61	51	213	16	5	11	211
DCS17	91	62	227	24	0	0	250
DCS18	37	48	104	25	6	0	231
DCS19	37	58	112	26	12	13	274
DCS20	40	57	101	22	5	6	297
DCS21	43	59	104	20	9	6	285
DCS22	54	64	134	23	3	1	271
DCS23	68	77	180	40	10	7	287
DCS24	84	73	233	16	7	11	278
DCS25	81	59	231	19	1	1	221
DCS26	61	40	176	11	2	3	209
DCS27	63	39	150	12	4	5	292
DCS28	85	44	216	16	0	7	240
DCS29	52	33	151	9	0	8	250
DCS30	48	38	164	12	3	2	240
DCS31	61	33	174	10	5	4	245
DCS32	72	33	193	11	4	11	224
DCS33	65	36	180	4	2	4	233
DCS34	54	30	204	7	2	13	220
DCS35	58	26	186	7	2	8	255
DCS36	47	25	168	11	0	2	235
DCS37	56	31	198	7	1	0	244
DCS38	47	26	147	10	0	4	267
DCS39	52	28	136	11	5	3	282
DCS40	34	27	112	11	11	2	249
DCS41	54	36	126	10	4	2	249
DCS42	59	32	157	10	7	10	236
DCS43	57	36	130	4	6	8	249
DCS44	83	51	177	9	0	4	211
DCS45	75	49	149	8	5	5	242
DCS46	82	45	159	6	7	4	242
DCS47	64	37	127	10	7	10	270
DCS48	126	64	228	9	3	6	227
DCS49	106	49	132	11	5	5	239
DCS50	147	68	143	0	0	1	228
DCS51	131	78	145	14	4	8	287
DCS52	115	76	132	3	4	5	280

All elements in ppm

Chillaton reconnaissance soil samples

Sample number	Ni	Cu	Zn	As	Sn	Sb	Ba
DCS53	120	85	134	9	0	3	283
DCS54	60	64	98	23	4	4	328
DCS55	49	67	69	22	6	16	385
DCS56	76	80	93	35	0	9	336
DCS57	62	52	87	32	0	2	306
DCS58	71	67	98	22	7	9	248
DCS59	52	73	66	33	2	0	229
DCS60	95	78	118	17	3	6	246
DCS61	84	59	102	22	4	4	209
DCS62	120	54	130	20	0	0	216
DCS63	135	73	155	25	0	0	239
DCS64	196	52	219	14	0	5	171
DCS65	59	42	97	11	5	4	208
DCS66	53	49	122	9	6	3	211
DCS67	58	55	125	13	8	7	218
DCS68	62	48	131	11	2	7	209
DCS69	64	55	135	14	2	7	217
DCS70		60	186				
DCS71	261	108	413	13	0	0	542
DCS72	248	81	238	13	1	2	371
DCS73	94	87	269	34	6	4	160
DCS74	115	88	202	17	6	4	244
DCS75	99	54	139	11	3	4	315
DCS76	135	66	171	12	0	0	343
DCS77	132	59	129	10	2	0	325
DCS78	171	60	135	10	4	6	221
DCS79	123	81	135	16	2	9	260
DCS80	104	70	125	13	0	11	276
DCS81	119	52	128	11	0	3	407
DCS82	82	53	126	13	4	5	349
DCS83	75	52	116	11	0	4	255
DCS84	68	54	114	14	2	2	293
DCS85	63	51	96	15	7	7	276
DCS86	70	45	102	13	8	9	291
DCS87	150	56	175	15	6	2	273
DCS88	53	41	65	15	2	5	221
DCS89	29	25	29	13	4	4	209
DCS90	38	34	42	15	10	8	220
DCS91	43	83	76	23	6	9	261
DCS92	31	97	46	22	7	6	296
DCS93	24	68	38	20	1	6	271
DCS94	50	115	79	25	3	12	289
DCS95	81	86	126	34	7	7	262
DCS96	164	56	150	18	1	0	398
DCS97	96	62	158	16	2	2	553
DCS98	69	53	118	14	2	10	606
DCS99	73	58	123	15	0	5	421
DCS100	169	31	124	18	4	0	270
DCS101	64	52	81	48	0	15	274
DCS102	60	74	75	43	1	4	267
DCS103	60	63	97	27	1	4	284
DCS104	53	80	86	67	5	6	339

All elements in ppm

Chillaton reconnaissance soil samples

Sample number	Ni	Cu	Zn	As	Sn	Sb	Ba
DCS105	85	169	288	66	9	8	457
DCS106	94	125	190	27	0	8	342
DCS107	49	98	86	28	0	2	445
DCS108	42	120	54	68	4	8	352
DCS109	55	98	82	44	3	3	382
DCS110	46	66	77	27	4	11	412
DCS111	37	99	49	30	0	15	916
DCS112	38	88	61	27	6	1	483
DCS113	62	51	104	15	6	8	534
DCS114	36	39	50	19	6	7	258
DCS115	29	34	51	20	9	10	213
DCS116	18	26	37	23	4	6	375
DCS117	24	28	50	21	2	0	332
DCS118	28	32	59	22	0	3	348
DCS119	31	61	58	45	7	14	464
DCS120	46	72	70	34	5	9	373
DCS121	31	54	46	32	4	12	522
DCS122	39	46	60	28	1	10	385
DCS123	36	66	62	30	2	14	398
DCS124	70	76	49	55	4	16	489
DCS125	34	69	57	50	3	16	404
DCS126	32	63	38	30	5	14	597
DCS127	32	73	54	21	3	6	718
DCS128	36	68	60	25	6	12	488
DCS129	35	63	56	25	8	12	491
DCS130	27	40	43	26	6	0	363
DCS131	28	57	148	24	3	3	269
DCS132	35	43	60	14	4	4	235
DCS133	29	46	68	27	14	6	216
DCS134	23	42	52	22	4	6	213
DCS135	67	53	170	6	2	1	232
DCS136	46	57	126	4	0	7	202
DCS137	55	67	132	9	6	6	236
DCS138	98	65	132	12	4	7	263
DCS139	100	60	127	17	5	4	260
DCS140	197	46	118	6	4	0	224
DCS141	396	70	122	3	6	11	144
DCS142	222	36	116	14	13	4	186
DCS143	235	45	113	12	0	0	181
DCS144	157	40	98	14	3	6	228
DCS145	126	33	129	17	0	0	238
DCS146	93	40	126	21	9	10	281
DCS147	59	30	185	11	2	7	261

All elements in ppm

CHILLATON RECONNAISSANCE SOIL SAMPLES

Sample number	Ce	Pb	U	LoI
DCS1	63	56	2	12.30
DCS2	46	40	2	9.40
DCS3	46	57	3	12.60
DCS4	53	33	3	9.50
DCS5	61	65	3	13.40
DCS6	68	45	2	12.10
DCS7	61	36	2	10.90
DCS8	41	40	1	4.30
DCS9	52	35	2	12.60
DCS10	56	34	2	13.40
DCS11	43	59	2	18.80
DCS12	72	29	2	13.10
DCS13	73	24	2	10.20
DCS14	43	40	2	10.90
DCS15	64	46	2	5.10
DCS16	75	33	2	8.90
DCS17	84	39	2	7.10
DCS18	59	80	3	11.70
DCS19	62	85	4	10.40
DCS20	65	70	3	8.30
DCS21	97	95	4	6.90
DCS22	59	43	3	9.20
DCS23	73	59	3	10.30
DCS24	53	20	2	5.70
DCS25	37	28	2	5.40
DCS26	57	29	2	7.50
DCS27	60	19	2	5.50
DCS28	55	23	3	4.80
DCS29	36	25	3	4.20
DCS30	56	27	3	5.80
DCS31	63	19	3	4.80
DCS32	74	14	3	7.10
DCS33	50	14	3	4.10
DCS34	68	20	3	10.50
DCS35	65	7	3	4.10
DCS36	46	14	4	7.10
DCS37	60	17	4	5.40
DCS38	33	14	4	6.10
DCS39	56	8	3	7.10
DCS40	53	35	3	10.90
DCS41	39	20	3	4.90
DCS42	67	24	4	7.80
DCS43	62	19	3	2.20
DCS44	43	10	4	1.30
DCS45	51	18	3	3.80
DCS46	72	20	3	6.50
DCS47	31	19	3	5.00
DCS48	73	14	3	9.40
DCS49	65	11	2	3.90
DCS50	62	12	2	0.00
DCS51	75	19	3	5.50

Loss on ignition (LOI) in %, other elements in ppm.

CHILLATON RECONNAISSANCE SOIL SAMPLES

Sample number	Ce	Pb	U	LoI
DCS52	58	17	3	6.50
DCS53	73	24	3	3.90
DCS54	820	24	4	6.30
DCS55	836	67	5	3.50
DCS56	59	33	4	4.70
DCS57	24	32	3	4.30
DCS58	40	31	3	5.40
DCS59	38	46	3	5.30
DCS60	63	22	3	4.90
DCS61	57	18	2	5.20
DCS62	46	24	2	4.60
DCS63	62	22	2	7.20
DCS64	50	31	2	11.10
DCS65	37	14	2	3.80
DCS66	31	15	2	5.40
DCS67	53	15	2	4.30
DCS68	35	17	2	16.50
DCS69	46	22	2	3.10
DCS70		47	3	7.30
DCS71	59	31	2	7.20
DCS72	40	47	2	5.20
DCS73	55	292	1	2.60
DCS74	50	68	2	6.20
DCS75	37	27	2	1.80
DCS76	29	34	2	5.10
DCS77	43	28	2	8.70
DCS78	32	21	2	7.50
DCS79	58	34	2	7.50
DCS80	58	31	2	7.50
DCS81	62	26	2	4.70
DCS82	75	30	3	6.00
DCS83	51	33	3	3.30
DCS84	46	38	3	6.20
DCS85	68	34	3	5.90
DCS86	48	31	2	6.90
DCS87	77	22	2	8.10
DCS88	56	38	2	5.70
DCS89	56	38	2	6.50
DCS90	51	38	2	4.20
DCS91	73	62	4	5.90
DCS92	64	105	3	3.80
DCS93	75	70	3	5.10
DCS94	74	69	4	5.70
DCS95	78	105	3	7.70
DCS96	35	29	2	10.10
DCS97	46	13	2	6.10
DCS98	29	9	1	8.10
DCS99	25	6	2	7.30
DCS100	48	15	2	10.00
DCS101	67	38	3	6.30
DCS102	64	53	3	5.30

Loss on ignition (LOI) in %, other elements in ppm.

CHILLATON RECONNAISSANCE SOIL SAMPLES

Sample number	Ce	Pb	U	LoI
DCS103	47	22	3	4.30
DCS104	51	52	3	6.70
DCS105	63	42	3	5.70
DCS106	48	49	3	9.20
DCS107	42	73	4	8.90
DCS108	46	148	5	5.00
DCS109	57	54	4	10.40
DCS110	38	44	4	5.80
DCS111	55	59	10	1.40
DCS112	39	58	5	7.10
DCS113	69	43	5	4.20
DCS114	56	37	3	8.10
DCS115	55	82	3	6.30
DCS116	53	47	4	1.60
DCS117	59	36	3	4.90
DCS118	65	43	3	6.93
DCS119	56	47	6	3.40
DCS120	66	48	5	4.80
DCS121	52	55	10	3.90
DCS122	52	57	6	5.30
DCS123	80	55	6	4.20
DCS124	80	194	13	3.90
DCS125	68	96	7	7.00
DCS126	53	70	8	5.00
DCS127	51	62	4	6.00
DCS128	58	65	4	7.20
DCS129	77	65	5	9.50
DCS130	52	51	4	11.30
DCS131	61	66	3	10.60
DCS132	63	49	4	3.90
DCS133	46	55	3	13.20
DCS134	48	42	3	6.50
DCS135	25	23	2	9.00
DCS136	18	9	1	8.30
DCS137	47	43	1	9.70
DCS138	32	24	2	8.50
DCS139	41	33	2	14.90
DCS140	45	17	2	7.10
DCS141	34	10	1	6.90
DCS142	42	33	2	10.00
DCS143	35	21	2	7.30
DCS144	44	16	2	5.20
DCS145	61	33	2	7.40
DCS146	50	20	2	9.40
DCS147	55	24	3	7.40

Loss on ignition (LOI) in %, other elements in ppm.

Chillaton follow-up soils (1)

Sample number	CaO	TiO2	Mn	Fe2O3	Co	Ni	Cu
DCS150	0.22	1.30	1470	9.97	30	59	60
DCS151	0.33	1.42	1820	10.49	30	59	55
DCS152	0.24	1.91	4370	11.43	50	98	70
DCS153	0.31	1.50	2000	11.27	35	72	55
DCS154	0.22	1.25	1300	10.02	25	52	50
DCS155	0.18	1.14	750	8.03	20	43	45
DCS156	0.30	1.22	1140	9.49	25	44	45
DCS157	0.20	1.11	680	7.92	20	36	40
DCS158	0.18	1.12	990	8.08	25	42	55
DCS159	0.31	1.17	1080	9.14	20	38	45
DCS160	0.23	1.04	740	9.01	20	44	55
DCS161	0.29	0.98	570	9.09	15	34	50
DCS162	0.32	1.08	780	8.28	20	30	40
DCS163	0.34	1.09	870	8.71	20	35	50
DCS164	0.23	1.50	1000	9.34	20	45	65
DCS165	0.29	1.07	1230	8.46	20	36	50
DCS166	0.26	1.06	1210	8.65	25	52	60
DCS167	0.40	1.03	1300	8.67	25	33	55
DCS168	0.35	1.05	1180	8.54	20	30	45
DCS169	0.27	1.04	1030	8.89	25	43	60
DCS170	0.38	1.05	1230	8.52	25	42	55
DCS171	0.39	1.06	1500	8.75	25	42	60
DCS172	0.42	1.09	2030	8.95	30	42	65
DCS173	0.37	1.02	2380	8.58	30	50	65
DCS174	0.39	1.08	2700	8.77	30	45	70
DCS175	0.28	1.06	2250	8.35	30	47	65
DCS176	0.31	1.02	1580	7.93	25	48	55
DCS177	0.33	0.98	1490	7.46	25	41	55
DCS178	0.20	0.77	1160	6.50	25	83	90
DCS179	0.24	1.30	1400	8.01	35	79	115
DCS180	0.36	1.06	1240	7.37	25	39	50
DCS181	0.40	1.02	1200	7.17	25	40	55
DCS182	0.30	0.99	1060	7.17	25	45	55
DCS183	0.34	0.92	1130	6.74	25	43	55
DCS184	0.72	0.95	1330	6.58	25	36	50
DCS185	0.31	0.88	1030	6.20	25	34	50
DCS186	0.69	0.98	1230	6.21	25	28	40
DCS187	0.41	0.99	1200	6.70	25	34	45
DCS188	0.40	1.05	1410	7.09	25	37	45
DCS189	0.40	1.17	1820	8.26	25	53	55
DCS190	0.48	1.37	2100	9.34	30	57	45
DCS191	0.36	1.29	1710	9.47	30	70	45
DCS192	0.44	1.47	1840	11.09	30	86	45
DCS193	0.58	1.61	2250	11.12	35	74	45
DCS194	0.39	1.64	1960	11.27	35	80	45
DCS195	0.56	1.72	1820	11.46	35	77	45
DCS196	0.71	2.01	3020	12.15	40	59	45
DCS197	0.74	1.93	2800	12.21	40	65	40
DCS198	0.80	1.70	1680	15.04	40	68	40
DCS199	0.70	1.85	2690	11.96	40	54	35
DCS200	0.66	1.77	2570	11.72	40	57	40
DCS201	0.61	1.71	2430	11.54	40	57	40

CaO, TiO2, Total Fe as Fe2O3, other elements in ppm.

Chillaton follow-up soils (1)

Sample number	CaO	TiO2	Mn	Fe2O3	Co	Ni	Cu
DCS202	0.64	1.71	2490	11.33	40	61	35
DCS203	0.73	1.72	2450	11.69	40	66	40
DCS204	0.79	1.61	2130	11.88	40	83	40
DCS205	0.84	1.57	2220	11.54	40	88	45
DCS206	0.53	1.50	2010	10.82	40	71	45
DCS207	0.47	1.45	2110	10.96	40	83	50
DCS208	0.19	1.12	1280	8.90	30	54	55
DCS209	0.24	0.99	1070	6.73	25	31	50
DCS210	0.38	1.05	1010	6.38	25	28	40
DCS211	0.42	1.07	880	6.57	20	26	40
DCS212	0.32	1.05	740	6.36	20	29	45
DCS213	0.38	1.04	750	6.40	20	26	45
DCS214	0.40	1.11	760	6.27	20	29	45
DCS215	0.40	1.10	800	6.57	20	32	60
DCS216	0.46	1.20	1150	8.66	30	50	70
DCS217	0.55	1.41	1630	9.77	40	81	75
DCS218	0.66	1.61	2080	10.41	45	126	80
DCS219	1.66	2.57	2790	16.12	60	323	105
DCS220	1.09	2.13	2930	13.67	60	211	80
DCS221	0.97	2.07	2630	13.01	60	209	75
DCS222	0.99	2.06	2910	12.58	60	167	70
DCS223	0.95	2.07	2900	12.46	55	157	65
DCS224	0.92	2.13	3140	12.16	55	131	65
DCS225	0.82	2.05	2760	11.91	50	147	70
DCS226	0.73	1.96	2610	11.86	45	128	60
DCS227	0.64	1.95	2600	11.45	45	118	60
DCS228	0.54	1.82	2690	10.90	45	100	60
DCS229	0.57	1.88	2540	11.20	40	109	55
DCS230	0.51	1.74	2820	13.60	45	136	65
DCS231	0.57	1.75	2710	12.80	45	108	60
DCS232	0.51	1.87	3110	12.10	45	90	55
DCS233	0.54	1.88	3020	12.21	45	88	55
DCS234	0.59	1.90	3100	12.33	45	84	50
DCS235	0.71	1.73	2480	13.06	45	105	55
DCS236	0.72	1.77	2680	12.55	45	102	50
DCS237	0.80	1.84	2880	13.37	50	107	55
DCS238	0.18	2.04	2600	14.77	55	116	55
DCS239	0.27	2.32	2510	13.48	45	79	65
DCS240	0.36	2.34	3020	14.32	45	73	40
DCS241	0.35	2.42	3140	14.92	40	75	40
DCS242	0.51	2.25	3160	14.57	40	62	40
DCS243	0.24	2.13	2160	15.30	45	79	45
DCS244	0.32	2.31	2960	14.90	30	72	35
DCS245	0.32	2.30	2560	14.36	30	76	40
DCS246	0.24	2.15	1840	14.25	30	86	65
DCS247	0.26	2.44	2250	12.80	25	65	60
DCS248	0.22	2.33	2020	13.69	35	113	80
DCS249	0.26	1.94	1720	12.23	35	101	80
DCS250	0.26	1.81	1040	10.74	20	68	45
DCS251	0.24	0.99	490	8.00	15	54	60
DCS252	0.29	1.32	710	8.24	20	54	80
DCS253	0.18	1.60	800	14.13	20	62	85

CaO, TiO2, Total Fe as Fe2O3, other elements in ppm.

Chillaton follow-up soils (1)

Sample number	CaO	TiO2	Mn	Fe2O3	Co	Ni	Cu
DCS254	0.32	1.03	170	1.20	5	7	25
DCS255	0.05	0.76	100	3.57	5	12	15
DCS256	0.18	1.05	110	1.54	5	8	20
DCS257	0.09	1.09	80	1.29	0	4	15
DCS258	0.11	1.15	70	1.04	0	7	10
DCS259	0.06	0.89	160	6.19	5	24	30
DCS260	0.31	1.18	780	5.61	10	26	25
DCS261	0.17	1.46	1880	9.12	25	70	55
DCS262	0.40	2.26	2730	15.07	30	160	65
DCS263	0.36	2.40	3080	13.08	30	119	45
DCS264	0.22	2.95	2100	16.16	45	188	60
DCS265	0.16	1.33	830	8.55	20	54	80
DCS266	0.28	1.69	950	9.67	15	38	50
DCS267	0.20	1.70	1410	12.53	25	65	65
DCS268	0.18	1.52	1180	10.95	20	46	55
DCS269	0.21	1.17	760	8.71	15	34	60
DCS270	0.17	1.58	1250	10.62	30	60	115
DCS271	0.24	1.58	1080	10.21	20	41	50
DCS272	0.61	1.75	2020	15.29	50	201	150
DCS273	0.58	1.83	2340	14.52	40	130	75
DCS274	0.50	1.97	2260	15.58	35	83	60
DCS275	0.49	2.03	2170	13.44	25	54	35
DCS276	0.58	2.18	2700	14.39	30	63	35
DCS277	0.55	2.14	2630	16.63	45	127	125
DCS278	0.28	1.49	1880	10.88	25	52	40
DCS279	0.19	1.08	1150	8.68	20	53	60

CaO, TiO2, Total Fe as Fe2O3, other elements in ppm.

Chillaton follow-up soils (1)

Sample number	Zn	As	Sn	Sb	Ba	Ce	Pb
DCS150	90	33	5	0	327	63	60
DCS151	100	34	5	5	260	49	60
DCS152	140	30	3	9	236	58	50
DCS153	130	28	3	2	244	40	50
DCS154	80	32	4	1	376	49	50
DCS155	60	24	0	0	442	49	50
DCS156	80	32	5	0	306	52	50
DCS157	50	25	0	0	375	57	40
DCS158	60	29	0	3	422	51	50
DCS159	80	45	10	6	340	54	60
DCS160	70	41	9	5	418	63	60
DCS161	50	37	1	4	401	58	50
DCS162	50	41	9	6	336	52	50
DCS163	60	44	5	4	314	31	50
DCS164	60	35	6	11	367	72	50
DCS165	70	43	4	0	248	50	70
DCS166	80	44	1	0	298	59	60
DCS167	70	54	7	5	262	46	70
DCS168	60	48	5	4	253	48	70
DCS169	70	44	0	5	311	71	60
DCS170	70	46	4	1	303	45	60
DCS171	80	43	3	8	307	41	70
DCS172	90	47	9	7	298	37	70
DCS173	100	47	10	13	315	43	60
DCS174	100	52	4	0	294	19	60
DCS175	100	41	3	3	294	52	50
DCS176	90	40	8	4	304	50	50
DCS177	80	40	6	3	252	44	50
DCS178	100	32	6	1	266	47	40
DCS179	120	52	2	3	458	50	50
DCS180	90	49	4	4	253	48	50
DCS181	80	50	3	0	248	39	60
DCS182	70	48	6	0	252	42	50
DCS183	70	48	0	0	235	55	50
DCS184	70	49	4	4	215	46	50
DCS185	50	50	5	0	247	45	50
DCS186	50	48	5	10	214	41	50
DCS187	50	52	7	6	221	54	50
DCS188	60	49	8	9	238	58	50
DCS189	70	40	7	7	257	55	40
DCS190	70	42	8	2	257	60	40
DCS191	80	30	2	3	288	50	40
DCS192	90	30	0	0	309	38	30
DCS193	90	33	4	4	306	54	40
DCS194	100	29	3	0	314	44	40
DCS195	90	20	4	3	363	50	30
DCS196	110	35	5	7	336	25	40
DCS197	100	35	3	0	361	21	40
DCS198	90	32	5	5	428	42	30
DCS199	90	36	5	2	322	44	40
DCS200	100	33	7	0	355	40	40
DCS201	100	31	4	8	345	22	40

All elements in ppm.

Chillaton follow-up soils (1)

Sample number	Zn	As	Sn	Sb	Ba	Ce	Pb
DCS202	90	30	9	3	334	27	40
DCS203	90	34	2	0	312	30	50
DCS204	90	28	0	2	293	34	40
DCS205	90	32	6	7	253	25	50
DCS206	90	34	5	4	225	34	50
DCS207	100	39	6	6	256	31	50
DCS208	60	25	3	9	235	43	50
DCS209	50	29	7	6	227	54	60
DCS210	50	28	4	0	192	61	60
DCS211	50	33	0	0	195	42	60
DCS212	40	30	11	5	213	39	60
DCS213	40	33	5	3	195	83	70
DCS214	40	33	6	0	170	71	70
DCS215	50	35	4	0	190	49	70
DCS216	60	31	5	4	203	32	70
DCS217	90	28	4	2	234	67	70
DCS218	160	28	4	4	299	54	60
DCS219	410	15	0	0	653	42	40
DCS220	250	21	0	0	423	46	50
DCS221	220	22	0	4	396	47	40
DCS222	200	27	3	1	337	52	50
DCS223	190	25	6	6	333	38	50
DCS224	170	26	9	2	338	36	60
DCS225	170	21	1	2	368	51	50
DCS226	150	21	0	0	332	34	50
DCS227	150	21	0	2	341	34	60
DCS228	140	24	0	0	308	40	60
DCS229	170	20	5	2	304	37	50
DCS230	250	20	2	0	304	49	50
DCS231	200	23	5	0	279	34	50
DCS232	165	24	1	3	267	27	60
DCS233	150	22	4	2	251	45	60
DCS234	150	28	6	2	260	24	60
DCS235	130	19	4	4	310	41	50
DCS236	140	24	3	2	280	34	50
DCS237	130	22	9	2	260	36	50
DCS238	170	21	3	2	497	50	50
DCS239	120	33	6	4	263	43	60
DCS240	110	31	13	5	238	55	50
DCS241	100	28	9	0	369	42	40
DCS242	100	31	11	8	577	37	40
DCS243	120	14	1	0	690	66	30
DCS244	110	23	8	2	545	46	30
DCS245	130	30	8	0	468	45	40
DCS246	170	21	1	0	503	62	50
DCS247	130	41	9	1	292	51	80
DCS248	170	28	10	5	255	56	70
DCS249	150	37	6	0	290	75	100
DCS250	100	37	8	0	235	56	60
DCS251	70	33	3	0	176	42	70
DCS252	70	36	7	0	224	50	100
DCS253	80	32	4	0	270	39	80

All elements in ppm.

Chillaton follow-up soils (1)

Sample number	Zn	As	Sn	Sb	Ba	Ce	Pb
DCS254	30	16	8	2	104	30	70
DCS255	20	18	1	0	231	59	60
DCS256	40	24	15	0	88	25	70
DCS257	10	25	19	10	61	32	50
DCS258	20	47	13	0	99	53	60
DCS259	20	24	0	5	318	50	70
DCS260	40	23	1	2	215	31	60
DCS261	70	22	0	5	262	38	50
DCS262	100	17	3	1	322	30	40
DCS263	90	25	1	3	411	37	40
DCS264	140	21	1	4	694	50	30
DCS265	60	69	8	5	307	35	50
DCS266	60	65	5	1	238	50	50
DCS267	90	46	5	0	272	23	40
DCS268	70	49	0	1	235	36	40
DCS269	50	53	6	0	250	42	60
DCS270	70	45	0	0	257	48	40
DCS271	60	73	10	0	247	33	50
DCS272	170	41	7	1	234	51	40
DCS273	120	36	10	7	303	26	40
DCS274	100	20	4	0	392	40	30
DCS275	80	31	6	2	323	33	40
DCS276	80	24	2	0	391	29	40
DCS277	90	19	0	0	319	56	30
DCS278	70	42	0	4	233	36	40
DCS279	70	35	4	0	224	38	30

All elements in ppm.

CHILLATON FOLLOW-UP SOILS (2)

Sample number	CaO	TiO ₂	Mn	Fe ₂ O ₃	Co	Ni	Cu
DCS421	0.26	1.16	2670	10.83	30	52	40
DCS422	0.36	1.46	1150	10.47	25	17	45
DCS423	0.43	1.46	1660	11.00	25	34	35
DCS424	0.32	1.39	1540	11.89	30	42	30
DCS425	0.39	1.51	1230	11.47	30	30	35
DCS426	0.34	1.54	1460	11.01	30	40	30
DCS427	0.24	1.33	2490	11.81	30	62	35
DCS428	0.36	1.67	1570	12.39	25	45	30
DCS429	0.45	1.92	2760	13.69	35	59	35
DCS430	0.49	1.93	2330	13.93	35	55	35
DCS431	0.44	1.63	2600	13.28	35	62	35
DCS432	0.42	2.14	2910	15.01	40	49	35
DCS433	0.85	2.20	2640	14.74	35	54	35
DCS434	0.58	2.33	2490	15.75	40	67	35
DCS435	0.98	2.18	2860	13.88	30	45	35
DCS436	0.59	2.09	2330	12.18	30	37	35
DCS437	0.39	2.05	2240	11.29	25	31	35
DCS438	0.39	1.89	1260	10.73	20	26	35
DCS439	0.22	1.32	550	7.25	10	18	30
DCS440	0.42	1.96	1490	11.61	20	36	40
DCS441	0.35	2.06	1670	12.62	20	35	45
DCS442	0.37	2.36	2610	12.87	25	31	35
DCS443	0.34	1.95	1190	10.73	25	41	50
DCS444	0.25	2.27	1160	12.38	20	37	55
DCS445	0.20	2.56	1270	11.08	25	36	55
DCS446	0.24	2.30	1520	11.57	25	37	50
DCS447	0.19	2.45	1010	8.57	25	42	60
DCS448	0.13	2.54	990	8.21	20	40	40
DCS449	0.23	2.27	1620	12.18	30	39	45
DCS450	0.18	2.37	2300	15.16	30	28	40
DCS451	0.24	2.42	2220	13.33	30	35	35
DCS452	0.39	2.38	3960	15.98	35	29	25
DCS453	0.57	2.27	3460	16.14	45	37	30
DCS454	0.58	2.47	3410	14.87	35	34	30
DCS455	0.46	2.29	2190	12.32	30	32	35
DCS456	0.19	1.66	1450	10.14	25	44	40
DCS457	0.18	2.40	4490	12.94	30	30	35
DCS458	0.21	2.36	3650	12.43	30	31	35
DCS459	0.14	2.04	1980	12.61	30	58	35
DCS460	0.13	2.29	3020	13.19	35	53	30
DCS461	0.17	2.25	3210	13.81	35	79	40
DCS462	0.18	2.14	3040	13.09	40	79	40
DCS463	0.19	2.10	3090	13.25	40	82	40
DCS464	0.23	2.09	3260	13.16	40	72	30
DCS465	0.21	1.86	2330	13.20	35	99	40
DCS466	0.40	2.13	1990	14.70	40	120	50
DCS467	0.17	1.75	2120	11.07	30	52	40
DCS468	0.28	2.14	360	6.73	15	45	30

CaO, TiO₂, Total Fe as Fe₂O₃ in %, other elements in ppm.

Chillaton follow-up soils (2)

Sample number	Zn	As	Sn	Sb	Ba	Pb
DCS421	120	24	17	5	309	60
DCS422	90	27	7	0	75	60
DCS423	100	28	10	5	231	50
DCS424	100	28	6	4	142	40
DCS425	100	28	2	4	83	50
DCS426	90	24	6	2	167	40
DCS427	110	24	9	1	307	50
DCS428	100	30	4	0	126	40
DCS429	100	31	8	7	236	40
DCS430	100	31	8	0	189	40
DCS431	100	40	8	7	252	40
DCS432	100	32	12	4	218	40
DCS433	110	41	8	8	232	50
DCS434	100	35	11	2	209	40
DCS435	80	44	8	0	230	40
DCS436	70	43	14	3	239	50
DCS437	60	37	9	2	255	50
DCS438	60	35	3	0	179	50
DCS439	30	43	13	13	356	60
DCS440	70	38	9	6	291	50
DCS441	70	37	6	5	257	50
DCS442	60	33	3	3	251	40
DCS443	80	45	1	0	266	50
DCS444	70	89	4	1	223	80
DCS445	70	65	8	6	302	40
DCS446	70	59	14	11	301	40
DCS447	60	89	6	7	328	60
DCS448	60	80	3	13	341	40
DCS449	90	81	3	5	285	50
DCS450	70	59	5	6	271	40
DCS451	100	47	5	6	273	50
DCS452	80	41	10	10	253	40
DCS453	100	51	5	10	207	40
DCS454	100	55	12	1	231	50
DCS455	70	61	4	1	249	50
DCS456	70	51	6	6	258	40
DCS457	80	63	10	7	281	40
DCS458	70	52	16	9	272	40
DCS459	70	54	4	3	287	30
DCS460	80	47	6	9	281	30
DCS461	90	48	12	11	276	30
DCS462	110	42	8	12	291	30
DCS463	100	42	9	15	266	30
DCS464	110	32	4	5	239	30
DCS465	100	30	7	4	281	30
DCS466	100	35	2	3	251	30
DCS467	70	31	10	4	301	30
DCS468	50	16	6	13	314	40

All elements in ppm.

Chillaton follow-up soils (3)

Sample number	Cu	Zn	As	Pb
DCS5501	25	90	19	30
DCS5502	30	100	29	40
DCS5503	25	130	18	40
DCS5504	30	80	23	40
DCS5505	35	90	20	40
DCS5506	20	20	18	40
DCS5507	45	50	30	40
DCS5508	35	50	32	40
DCS5509	55	40	80	50
DCS5510	50	80	88	50
DCS5511	60	150	96	90
DCS5512	30	70	27	40
DCS5513	35	130	26	40
DCS5514	35	130	27	40
DCS5515	35	150	15	40
DCS5516	30	100	23	40
DCS5517	30	60	30	40
DCS5518	30	50	29	40
DCS5519	15	20	20	40
DCS5520	40	60	36	40
DCS5521	40	60	34	40
DCS5522	50	80	96	40
DCS5523	70	80	100	40
DCS5524	45	80	88	50
DCS5525	55	80	96	40
DCS5526	55	100	162	50
DCS5527	40	130	140	50
DCS5528	25	120	136	40
DCS5529	40	100	28	40
DCS5530	40	80	23	40
DCS5531	35	80	21	30
DCS5532	45	60	25	40
DCS5533	45	80	27	40
DCS5534	40	80	27	40
DCS5535	45	100	30	40
DCS5536	40	110	28	40
DCS5537	30	90	26	30
DCS5538	25	80	19	30
DCS5539	40	100	27	40
DCS5540	40	100	38	40
DCS5541	40	100	29	30
DCS5542	35	90	26	30
DCS5543	50	90	52	40
DCS5544	40	100	80	30
DCS5545	45	80	100	30
DCS5546	45	140	80	40
DCS5547	50	90	72	40
DCS5548	50	120	25	40
DCS5549	60	90	24	40
DCS5550	35	90	27	40
DCS5551	35	100	20	30
DCS5552	45	150	50	40

All elements in ppm

Chillaton follow-up soils (3)

Sample number	Cu	Zn	As	Pb
DCS5553	40	100	32	50
DCS5554	35	110	27	40
DCS5555	25	90	23	40
DCS5556	65	100	41	90
DCS5557	40	130	28	30
DCS5558	55	90	36	40
DCS5559	120	100	27	30
DCS5560	65	100	26	40
DCS5561	40	100	32	40
DCS5562	35	100	29	40
DCS5563	30	100	23	40
DCS5564	35	130	34	40
DCS5565	35	140	27	40
DCS5566	35	220	29	40
DCS5567	40	140	28	40
DCS5568	50	160	20	40
DCS5569	55	110	24	20
DCS5570	40	100	29	30
DCS5571	40	90	36	20
DCS5572	40	80	41	20
DCS5573	35	110	30	30
DCS5574	45	100	52	40
DCS5575	45	110	58	40
DCS5576	50	250	40	50
DCS5577	45	220	33	40

All elements in ppm